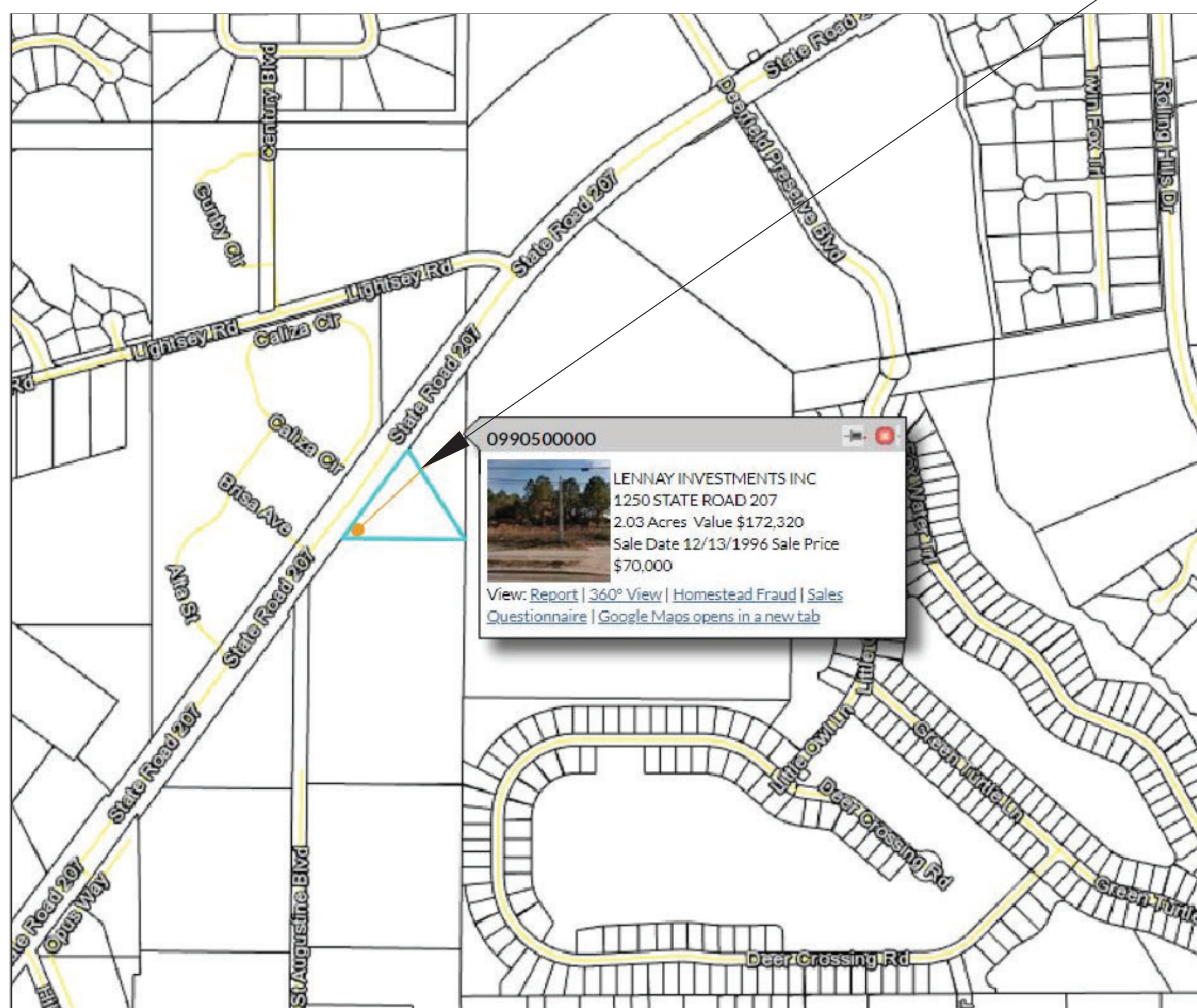


WHEN IN THE OPINION OF THE COUNTY ADMINISTRATOR, IT IS THE RESPONSIBILITY OF THE APPLICANT TO SCHEDULE A PRE-CONSTRUCTION/PRE-PERMIT ISSUANCE MEETING WITH ST. JOHNS COUNTY STAFF AFTER THE APPROVAL OF CONSTRUCTION PLANS, AND PRIOR TO STARTING ANY SITE ACTIVITIES.

REVIEWED FOR CONSTRUCTION
 St. Johns County Development Review
 Paving and Drainage Plans
 Site Plan _____
 MODCP _____
 Date: 02/13/2024 By: SM

REVIEW OF PLANS BY ST. JOHNS COUNTY DENOTES APPARENT CONFORMANCE WITH APPLICABLE REGULATIONS, ORDINANCES, AND SPECIFICATIONS.
 • DOES NOT DENOTE APPROVAL OF NON-STANDARD OR NON-CONFORMING FEATURES UNLESS SPECIFICALLY WAIVED OR OTHERWISE ALLOWED BY THE BOARD OF COUNTY COMMISSIONERS.
 • DOES NOT DENOTE VERIFICATION OR ENDORSEMENT OF ALL FUNCTIONAL ASPECTS, MATERIALS SELECTION, OR AESTHETIC CONSIDERATIONS.
 • DOES NOT CONSTITUTE A PROFESSIONAL ENGINEERING CERTIFICATION BY THIS DEPARTMENT OR STAFF. DESIGN RESPONSIBILITY LIES SOLELY WITH THE ENGINEER OF RECORD.
 • CONFIRMATION OF CORRECT LOCATION OF CONSTRUCTION IS THE RESPONSIBILITY OF THE OWNER AND BUILDER BASED ON A PROPER SURVEY OF THE CONSTRUCTION SITE.

PROJECT LOCATION



FIRE PROTECTION NOTES

1. ALL FIRE HYDRANTS TO OPEN COUNTER CLOCKWISE
2. APPROVAL OF THESE PLANS DO NOT INCLUDE APPROVAL FOR PRIVATE UNDERGROUND WATER MAIN, HYDRANTS, AND FIRE SPRINKLER MAINS.
3. IF A PRIVATE HYDRANT IS INSTALLED WITHOUT A FIRE MARSHAL PERMIT, THIS WILL HOLD UP YOUR AS-BUILT AND REQUIRE THE WATERMAIN TO BE DUG UP AFTER BURIED
4. LARGEST HOSE OUTLET NOT LESS THAN 18" ABOVE FINAL GRADE AND FACING ROADWAY

TRINCA CENTER

for

LEN TRINCA
LENNAY INVESTMENTS
7 F STREET
ST AUGUSTINE FL. 32080
904-347-4203
EMAIL: LEN1872-EXT@YAHOO.COM

INDEX OF DRAWINGS

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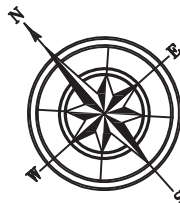
48 HOURS BEFORE YOU DIG
 CALL SUNSHINE
 1-800-432-4773
 IT'S THE LAW IN FLORIDA

ENGINEERING SERVICES PROVIDED BY:



RGM ENGINEERING
 65 LEWIS BLVD
 ST. AUGUSTINE, FLORIDA 32084
 (904) 814-7633

SURVEY PROVIDED BY:

ANCIENT CITY SURVEYORS
 LB # 8177
 **PROFESSIONAL LAND SURVEYORS**
 4425 U.S. HIGHWAY No. 1 SOUTH, SUITE 401
 ST. AUGUSTINE, FLORIDA 32086
 email: acs-surveyors@comcast.net PHONE: 904-797-9867

Revisions

Date



TRINCA CENTER

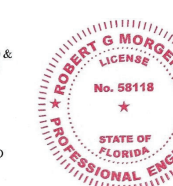
COVER SHEET

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 -05'00"

2-2-24

1 OF 12

ROBERT MORGAN, JR., P.E.



THIS PLAN HAS BEEN REVIEWED BY THE PROFESSIONAL ENGINEER AND FOUND TO BE IN ACCORDANCE WITH THE FLORIDA ENGINEERING AND SURVEYING BOARD REGULATIONS AND THE STATE OF FLORIDA PROFESSIONAL ENGINEERING AND SURVEYING ACT. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PLAN AND DOES NOT CONSTITUTE AN ENDORSEMENT OF THE PROJECT OR A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PLAN AND DOES NOT CONSTITUTE AN ENDORSEMENT OF THE PROJECT OR A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

MAP OF SURVEY

DEED DESCRIPTION

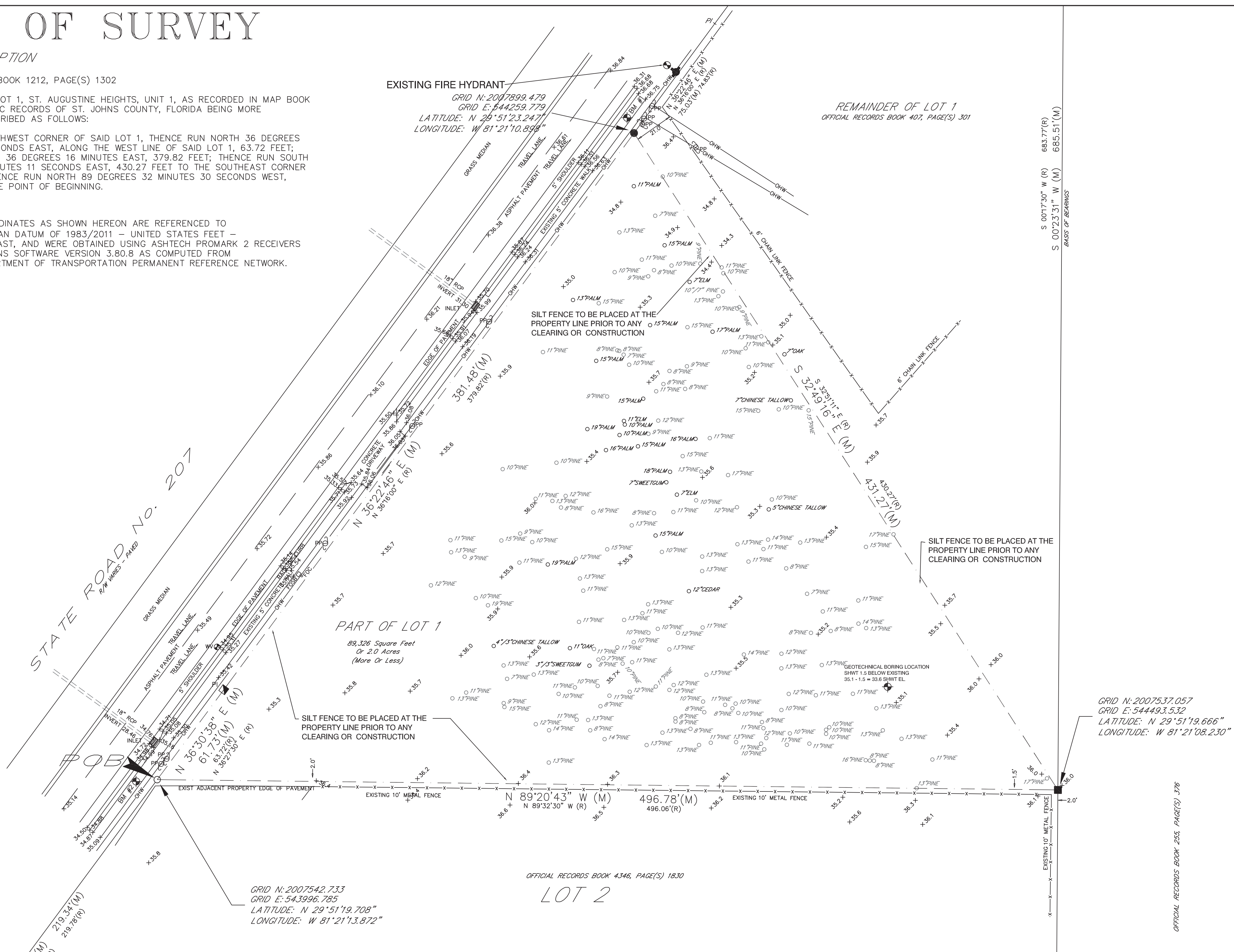
OFFICIAL RECORDS BOOK 1212, PAGE(S) 1302

BEING A PART OF LOT 1, ST. AUGUSTINE HEIGHTS, UNIT 1, AS RECORDED IN MAP BOOK 10, PAGE 27, PUBLIC RECORDS OF ST. JOHNS COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF SAID LOT 1, THENCE RUN NORTH 36 DEGREES 27 MINUTES 30 SECONDS EAST, ALONG THE WEST LINE OF SAID LOT 1, 63.72 FEET; THENCE RUN NORTH 36 DEGREES 16 MINUTES EAST, 379.82 FEET; THENCE RUN SOUTH 32 DEGREES 51 MINUTES 11 SECONDS EAST, 430.27 FEET TO THE SOUTHEAST CORNER OF SAID LOT 1; THENCE RUN NORTH 89 DEGREES 32 MINUTES 30 SECONDS WEST, 496.06 FEET TO THE POINT OF BEGINNING.

NOTE:

STATE PLANE COORDINATES AS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983/2011 - UNITED STATES FEET - FLORIDA - ZONE EAST, AND WERE OBTAINED USING ASHTECH PROMARK 2 RECEIVERS AND GNSS SOLUTIONS SOFTWARE VERSION 3.80.8 AS COMPUTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION PERMANENT REFERENCE NETWORK.



NOTES

THE PARCEL OF LAND AS SHOWN HEREON LIES WITHIN FEDERAL FLOOD ZONE "X" (AREA OUTSIDE 0.2% ANNUAL CHANCE OF FLOOD) AS DEPICTED ON FLOOD INSURANCE RATE MAP No. 12109C-0376-J, COMMUNITY No. 125147 FOR ST. JOHNS COUNTY, FLORIDA AS REVISED 12/07/2018. <http://www.gis.boccc.co.st-johns.fl.us/imap/>

THE BASIS OF BEARING AS SHOWN HEREON IS THE EASTERLY LOT LINE OF LOT 1, ST. AUGUSTINE HEIGHTS, UNIT 1, HAVING AN ASSUMED BEARING OF S 00°23'31" W.

OWNERSHIP OF FENCES NOT DETERMINED BY THIS SURVEY.

FENCE POSITIONS MAY BE SHOWN EXAGGERATED FOR CLARITY.

ALL ELEVATIONS AS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. - 1988).

ALL CALCULATED DATA IS BASED ON FIELD MEASUREMENT.

ENCROACHMENTS AS SHOWN HEREON ARE ONLY THOSE ABOVEGROUND, VISIBLE OBJECTS OBSERVED BY THE SURVEYOR.

THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.

NO UNDERGROUND STRUCTURES, UTILITIES OR FOUNDATIONS WERE LOCATED OR DETERMINED BY THIS SURVEY.

THE PARCEL OF LAND AS SHOWN HEREON WAS NOT ABSTRACTED FOR DEEDS, DEED RESTRICTIONS, EASEMENTS OR RIGHTS OF WAY OF RECORD.

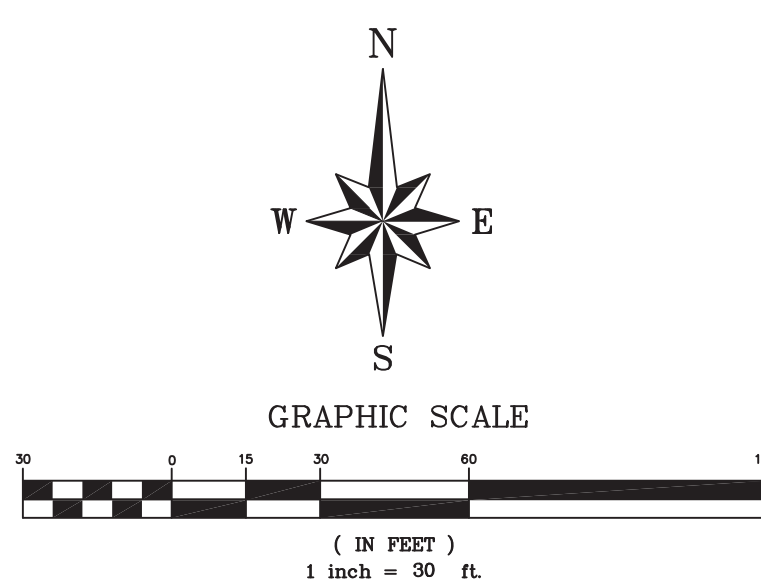
THIS SURVEY IS NOT VALID UNLESS IT IS SIGNED AND EMBOSSED WITH THE SIGNING SURVEYORS SEAL.

THIS SURVEY IS CERTIFIED TO AND FOR THE USE AND BENEFIT OF: LENNAY INVESTMENTS INC.

SUBJECT TO THE ABOVE CONDITIONS AND RESTRICTIONS I HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON WAS PERFORMED BY EITHER MYSELF OR UNDER MY DIRECT SUPERVISION AND THAT ALL OF THE INFORMATION SHOWN HEREON IS TRUE, AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS SURVEY CONFORMS TO SECTIONS 5J-17.051, 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODE.

LEGEND

- POB = POINT OF BEGINNING
- R/W = RIGHT OF WAY
- LB = LICENSED BUSINESS
- (R) = RECORD
- (M) = MEASURED
- PI = POINT OF INTERSECTION
- PP = POWER POLE
- CHW = OVERHEAD WIRE(S)
- WV = WATER VALVE
- FOC = FIBER OPTIC CABLE MARKER
- FOSB = FIBER OPTIC SERVICE BOX
- RCPC = REINFORCED CONCRETE PIPE
 - = FOUND 5/8" IRON ROD - # 6072
 - = FOUND 1/2" IRON PIPE - # 6979
 - = FOUND 5/8" IRON ROD - NO IDENTIFICATION
 - = FOUND 1" IRON PIPE IN 4" X 4" CONCRETE MONUMENT
 - = FOUND 6" X 6" CONCRETE MONUMENT - NO IDENTIFICATION
 - = FOUND 4" X 4" CONCRETE MONUMENT - # 894
- x.36.0 = SPOT ELEVATION
- 11'PINE = TREE TYPE AND SIZE
- BM #1 = BENCHMARK # 1 - X-CUT IN CONCRETE WALK ELEVATION 36.65 FEET N.A.V.D. 1988
- BM #2 = BENCHMARK # 2 - X-CUT IN CONCRETE WALK ELEVATION 35.09 FEET N.A.V.D. 1988



1250 STATE ROAD 207
ST. AUGUSTINE, FLORIDA, 32086
TYPE OF SURVEY: BOUNDARY
DATE OF SURVEY: 04/07/2021
FIELD BOOK/PAGE(S): 497/46-49
DRAWING SCALE: 1" = 40'
JOB NUMBER: 21-202

ANCIENT CITY SURVEYORS
LB # 0177
ACS PROFESSIONAL LAND SURVEYORS
4425 U.S. HIGHWAY No. 1 SOUTH, SUITE 401
ST. AUGUSTINE, FLORIDA 32086
email: acs-surveyors@comcast.net PHONE: 904-797-9987

Revisions
Date
65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633
RGM Engineering, Inc.
TRINCA CENTER
EXISTING SURVEY
2024.02.03 13:44:32 -0500'
ROBERT C. ARGENTI, P.E.
2-2-24
2 OF 12

DEED DESCRIPTION

OFFICIAL RECORDS BOOK 1212, PAGE(S) 1302

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NOTE:

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EXISTING FIRE HYDRANT

SETBACKS TYPICAL

REMAINDER OF LOT 1
OFFICIAL RECORDS BOOK 407, PAGE(S) 301

S 00°17'30" W (R) 683.77(F)
S 00°23'31" W (M) 685.51(F)
BASED ON RECORDS

FIRE PROTECTION NOTES

1. ALL FIRE HYDRANTS TO OPEN COUNTER CLOCKWISE
2. APPROVAL OF THESE PLANS DO NOT INCLUDE APPROVAL FOR PRIVATE UNDERGROUND WATER MAIN, HYDRANTS, AND FIRE SPRINKLER MAINS.
3. IF A PRIVATE HYDRANT IS INSTALLED WITHOUT A FIRE MARSHAL PERMIT, THIS WILL HOLD UP YOUR AS-BUILT AND REQUIRE THE WATERMAIN TO BE DUG UP AFTER BURIED

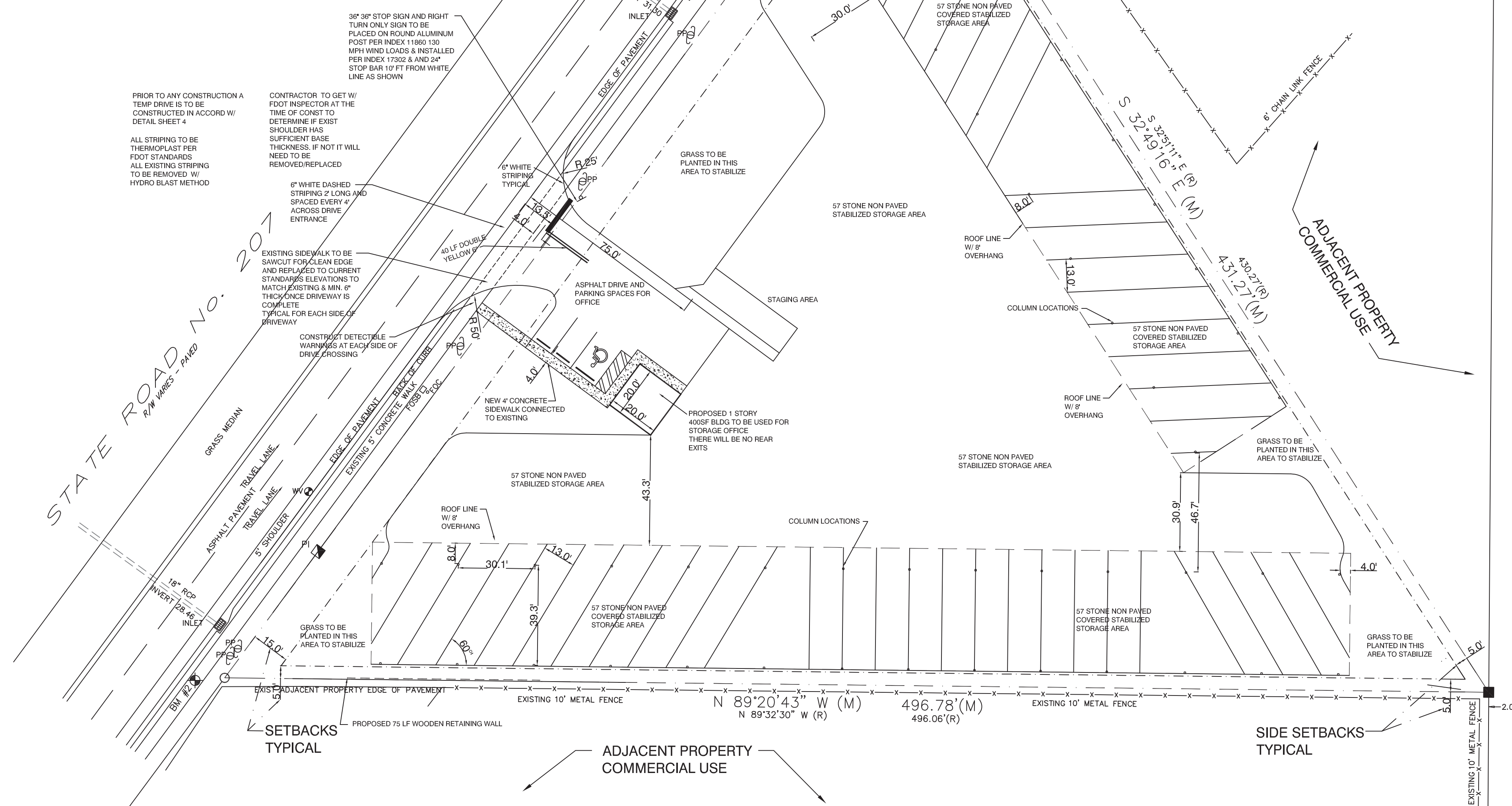
SITE DATA TABLE FOR PROJECT LIMITS		
TOTAL SITE		
EXIST WETLANDS	0 SF	0 AC 0%
EXIST UPLANDS	89,325 SF	2.0 AC 100%
TOTAL SITE	89,325 SF	2.0 AC 100%
SITE DEVELOPMENT DATA		
IMPACTED WETLANDS	0 SF	0 AC 0%
RESULTANT UPLANDS	89,325 SF	2.05 AC 100%
BUILDING	400 SF	0.09 AC (FAR)0.5%
ASPHALT PARKING DRIVE AREA	4195 SF	
COVERED AREAS/STONE AREAS	64,302 SF	
TOTAL IMPERVIOUS AREA	66,647 SF	1.53 AC (ISR)75%
TOTAL GREEN AREA	22,678 SF	0.52 AC 25

THERE WILL NOT BE ANY EXTERIOR LIGHTING ON THIS PROJECT SITE AT THIS TIME. IN THE EVENT IN THE FUTURE IF LIGHTING IS CONSTRUCTED IT WILL BE IN ACCORDANCE WITH THE LDC, SEC. 6.09.01

ZONING: IW
FUTURE LAND USE: MIXED USE
PARCEL ID: 098050-0000
MAX ISR: 75%
MAX FAR: 70%
REQUIRED SETBACKS: FRONT 15', SIDE 15', REAR 15'
MAX HEIGHT: 35'
PROPOSED HEIGHT: 16'
BUILDING TO BE USED FOR STORAGE OFFICE / SECURITY

NOTES:

1. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCHMARKS, IS REQUIRED IN COMPLIANCE WITH SECTION 6.04.00 OF THE LAND DEVELOPMENT CODE AND SECTION 15, "AS-BUILTS", OF THE DEVELOPMENT REVIEW MANUAL PRIOR TO SCHEDULING A FINAL INSPECTION OF THE BUILDING BY THE BUILDING DEPARTMENT AND THE FIRE MARSHALL.
2. ST. JOHNS COUNTY DEVELOPMENT REVIEW INSPECTOR SHALL BE CONTACTED 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO THE FINAL INSPECTION.
3. THE REQUIRED PARKING:
 - REQUIRED PARKING IS FOR PROFESSIONAL BUSINESS OFFICE (OTHER THAN MEDICAL OR DENTAL USE) @ 1 SPACE PER 300 SF = >= 400 / 300 = 2 SPACES
 - PROVIDED PARKING IS 3 SPACES WITH 1 HC SPACES INCLUDED.
4. THE 100 YEAR FLOOD PLAIN DOES NOT INFLUENCE THIS PROJECT SITE.
5. MAXIMUM HEIGHT OF ALL BUILDINGS WILL NOT EXCEED 35 FEET.
6. SCREENING OF SOLID WASTE RECEPTACLES SHALL BE IN ACCORDANCE WITH LDC, SECTION 6.06.04B8
SCREENING OF ALL MECHANICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH LDC, SECTION 6.06.04B9
7. FOR ALL DETECTABLE WARNING SURFACES FOR SIDEWALK LOCATIONS THAT ENTER DRIVE AREAS UNDER THE JURISDICTION OF ST. JOHNS COUNTY SHALL BE A COUNTY APPROVED YELLOW COLORED COMPOSITE MATERIAL ANCHORED IN THE CONCRETE SIDEWALK RAMP, ANCHORED COMPOSITE WARNING AREA INSERTS ARE TO BE COLORED "SAFETY YELLOW" ARE TO BE SET INTO THE CONCRETE AND ARE TO BE FLUSH WITH CONCRETE SURFACE ALONG ALL FOUR SIDES. DESIGN DIMENSIONS OF DETECTABLE WARNING AREA SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX 304, SHEETS 1 THROUGH 6, AND 28 CODE OF FEDERAL REGULATION (CFR) PART 36, APPENDIX A LATEST REVISION, AS WELL AS APPLICABLE COUNTY REQUIREMENTS, LDC SECTION 6.04.02.C.
8. A PRECONSTRUCTION MEETING IS TO BE SCHEDULED PRIOR TO CONSTRUCTION
9. THERE WILL NOT BE A CONSTRUCTION TRAILER USED ON THIS PROJECT
10. ALL THE FACILITIES AND ELEMENTS OF THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (FACBC), THE AMERICAN DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG) ESTABLISHED BY FLORIDA LAW AND 28 CFR PART 36, AND THE FAIR HOUSING ACT IF APPLICABLE. DETAILS REGARDING LOCATION, SIZE, NUMBER, DIMENSION AND OTHER NECESSARY DATA WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS.
11. SIGN TO BE IN COMPLIANCE WITH LDC SECTION 7.02.04.C. SIGN NOT TO EXCEED 150 SF OF ADA AND HEIGHT OF NOT MORE THAN 20'



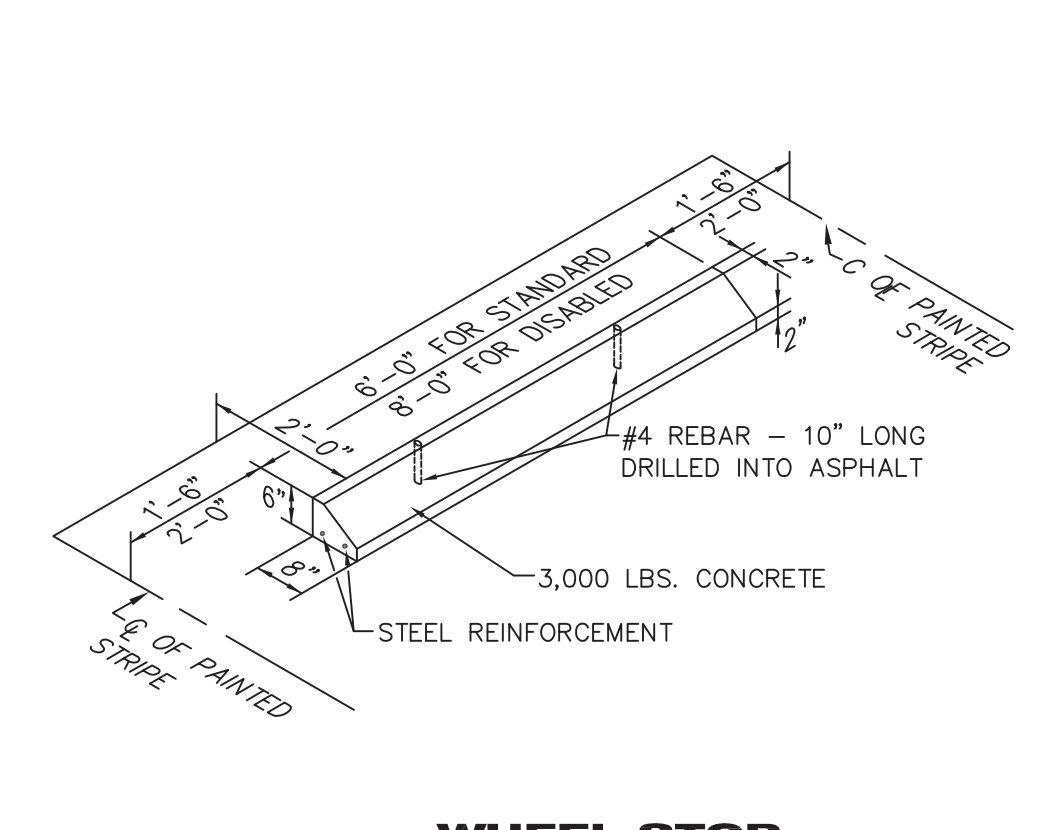
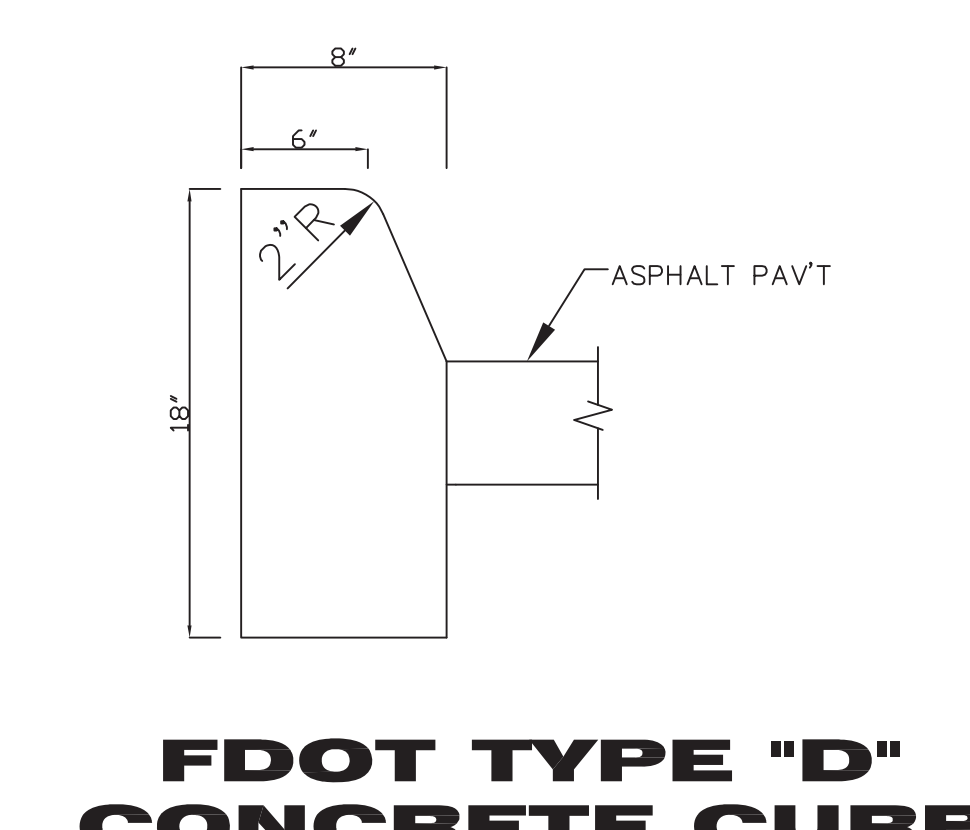
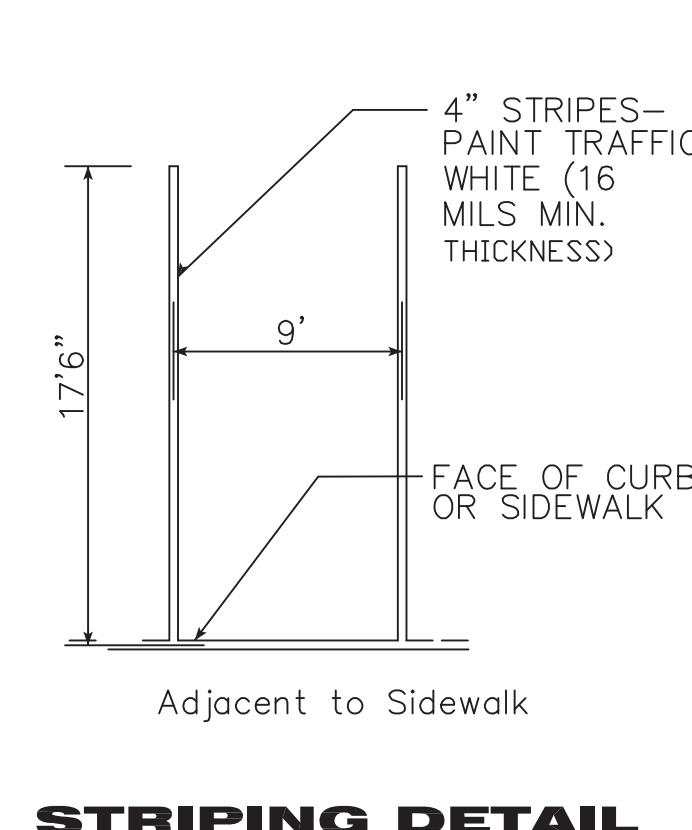
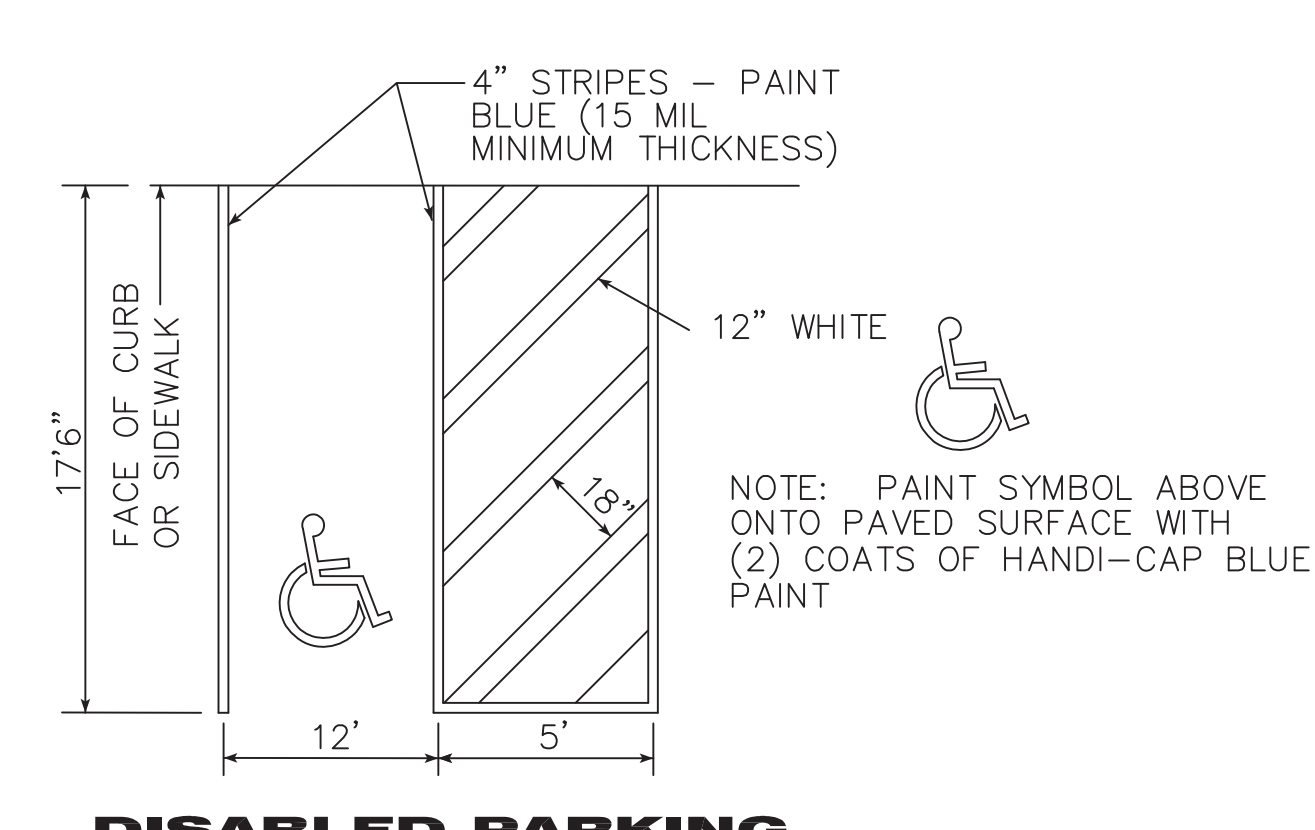
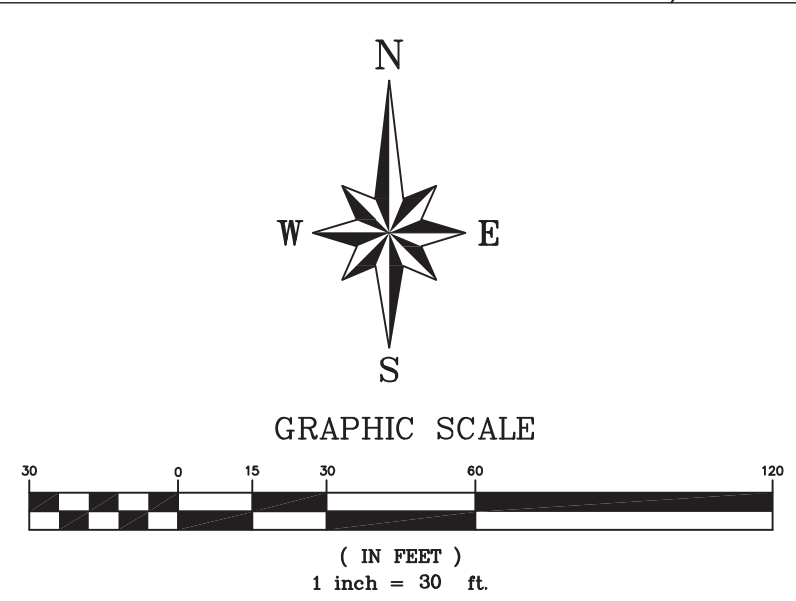
PRIOR TO ANY CONSTRUCTION A TEMP DRIVE IS TO BE CONSTRUCTED IN ACCORD W/ DETAIL SHEET 4
ALL STRIPING TO BE THERMOPLAST PER FDOT STANDARDS
ALL EXISTING STRIPING TO BE REMOVED W/ HYDRO BLAST METHOD

CONTRACTOR TO GET W/ FDOT INSPECTOR AT THE TIME OF CONST TO DETERMINE IF EXIST SHOULDER HAS SUFFICIENT BASE THICKNESS. IF NOT IT WILL NEED TO BE REMOVED/REPLACED
6" WHITE DASHED STRIPING 2' LONG AND SPACED EVERY 4' ACROSS DRIVE ENTRANCE

EXISTING SIDEWALK TO BE SANICUT FOR CLEAR EDGE AND REPLAZED TO CURRENT STANDARDS ELEVATIONS TO MATCH EXISTING & MIN. 1" THICK CONCRETE DRIVEWAY IS COMPLETE TYPICAL FOR EACH SIDE OF DRIVEWAY

CONSTRUCTION DETECTABLE WARNING: AT EACH SIDE OF DRIVE CROSSING
NEW 4" CONCRETE SIDEWALK CONNECTED TO EXISTING

PROPOSED 1 STORY 400SF BLDG TO BE USED FOR STORAGE OFFICE. THERE WILL BE NO REAR EXITS



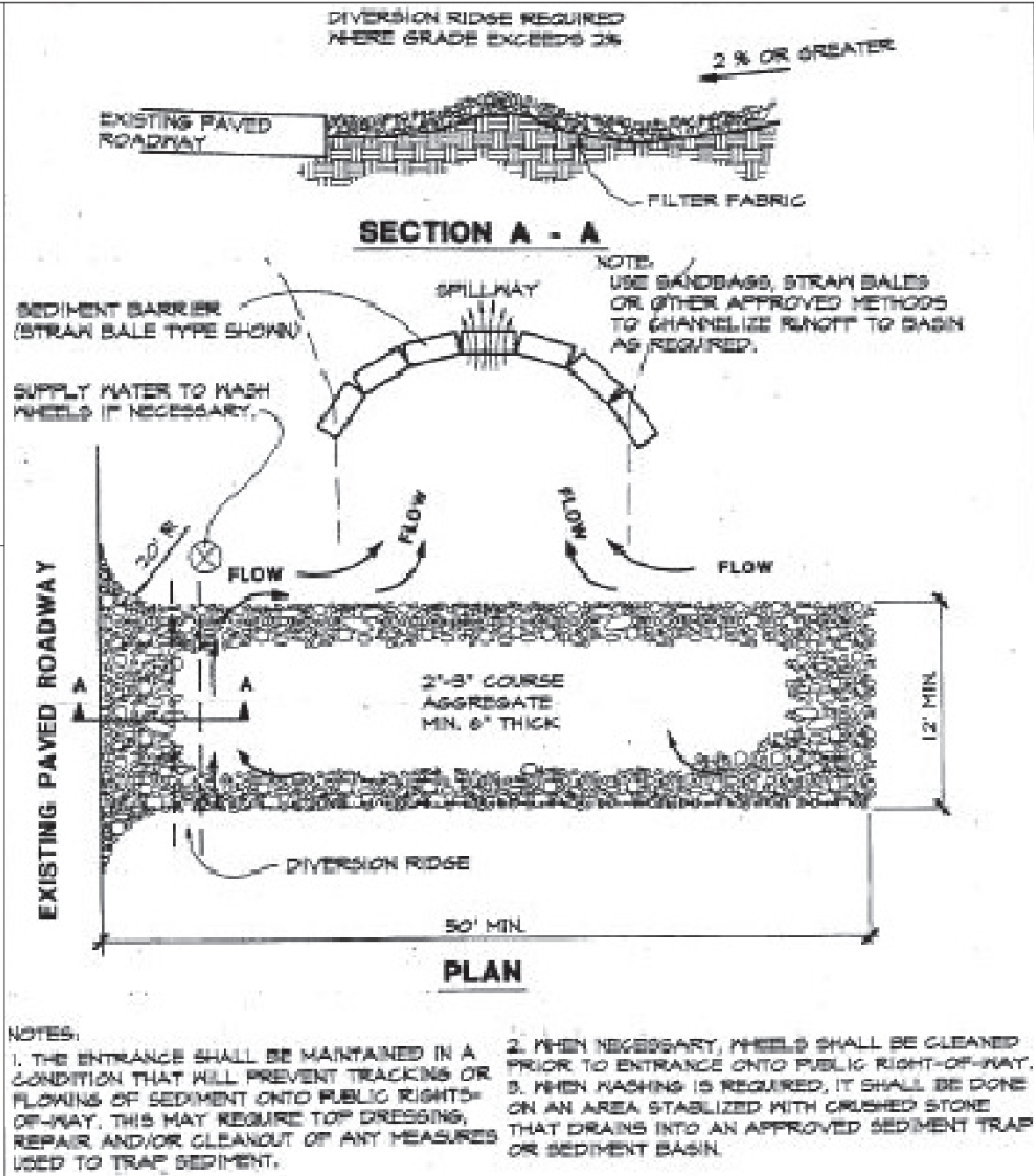
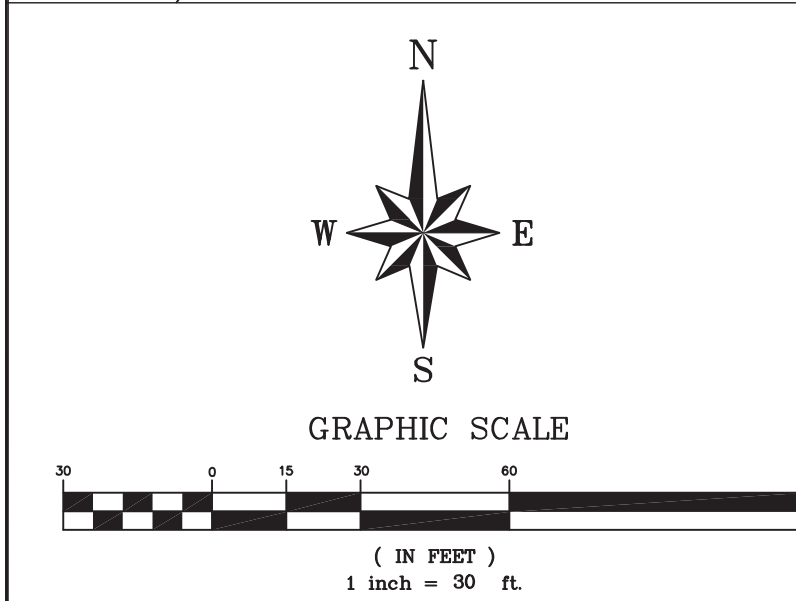
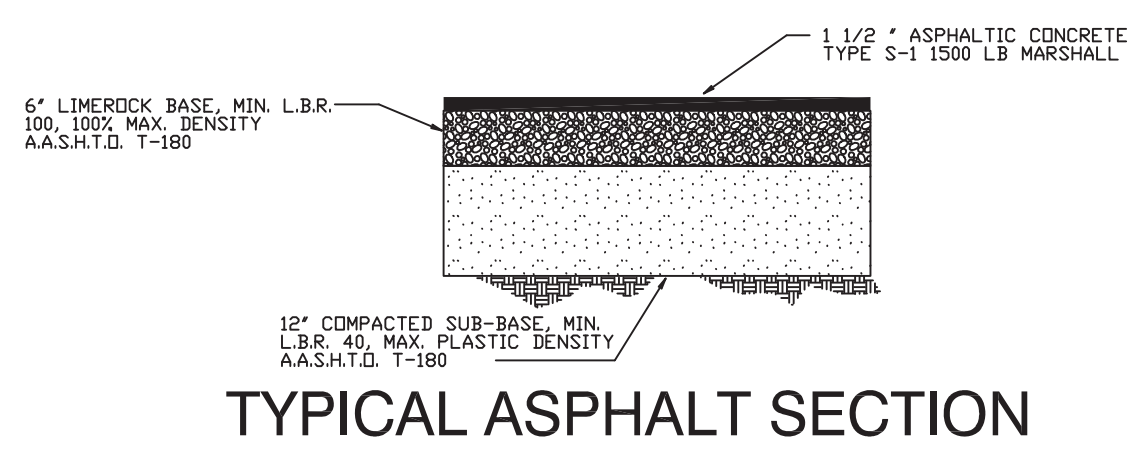
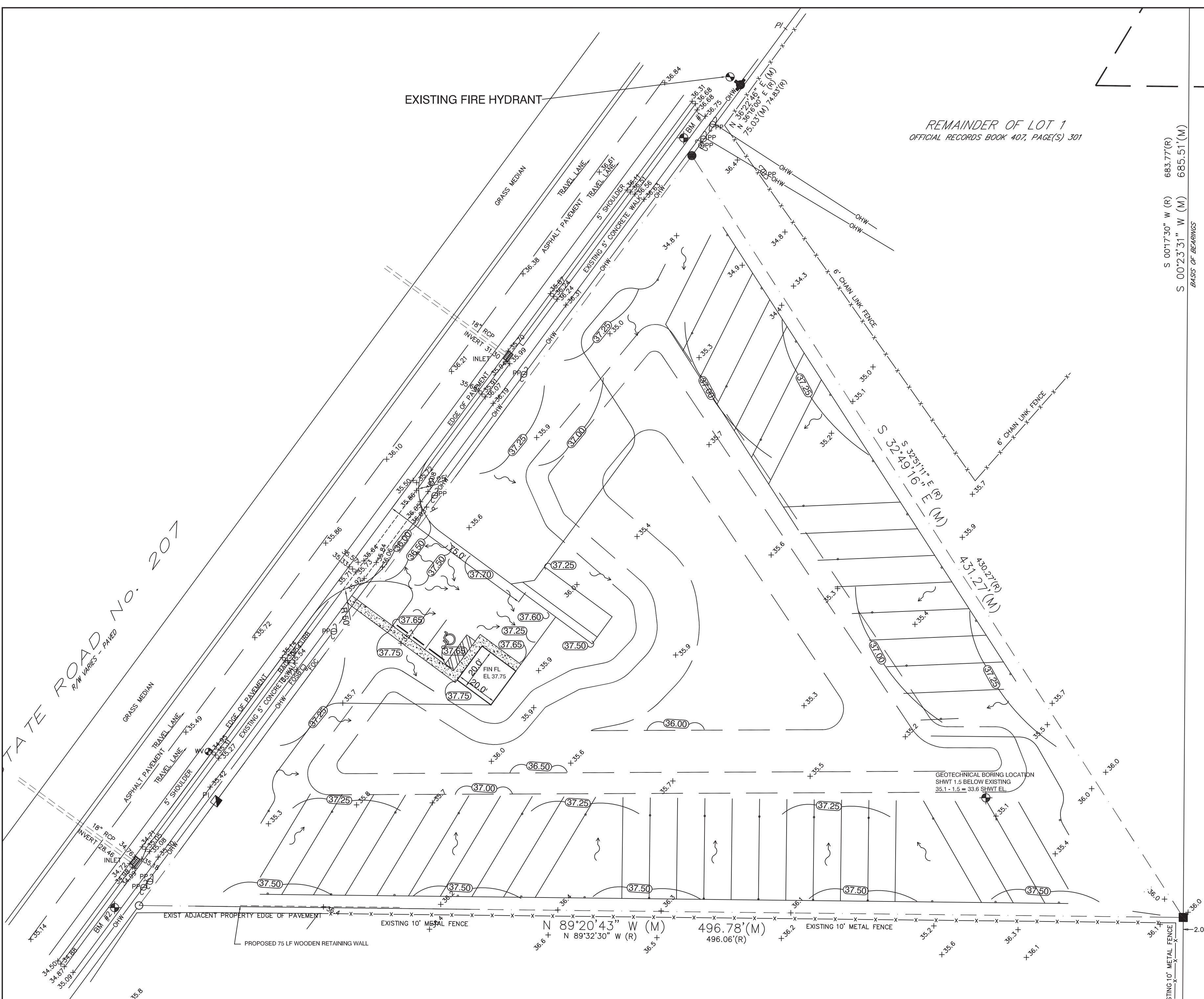
65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633

Engineering, Inc.

TURINCA CENTER

OVERALL SITE PLAN

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Temporary Gravel Construction Entrance & Exit

A geotextile shall be laid down to improve stability and simplify maintenance. FDOT No. 1 Coarse Aggregate (1.5 - 3.5 inch stone) should be used. The gravel shall be placed over the geotextile. The aggregate layer must be at least 6 inches thick. It must extend the full width of the vehicular ingress and egress area. (Light traffic 12'; Heavy traffic 25'). The length of the entrance must be at least 50'. The entrance must be widened at its connection to the roadway in order to accommodate the turning radius of large trucks.

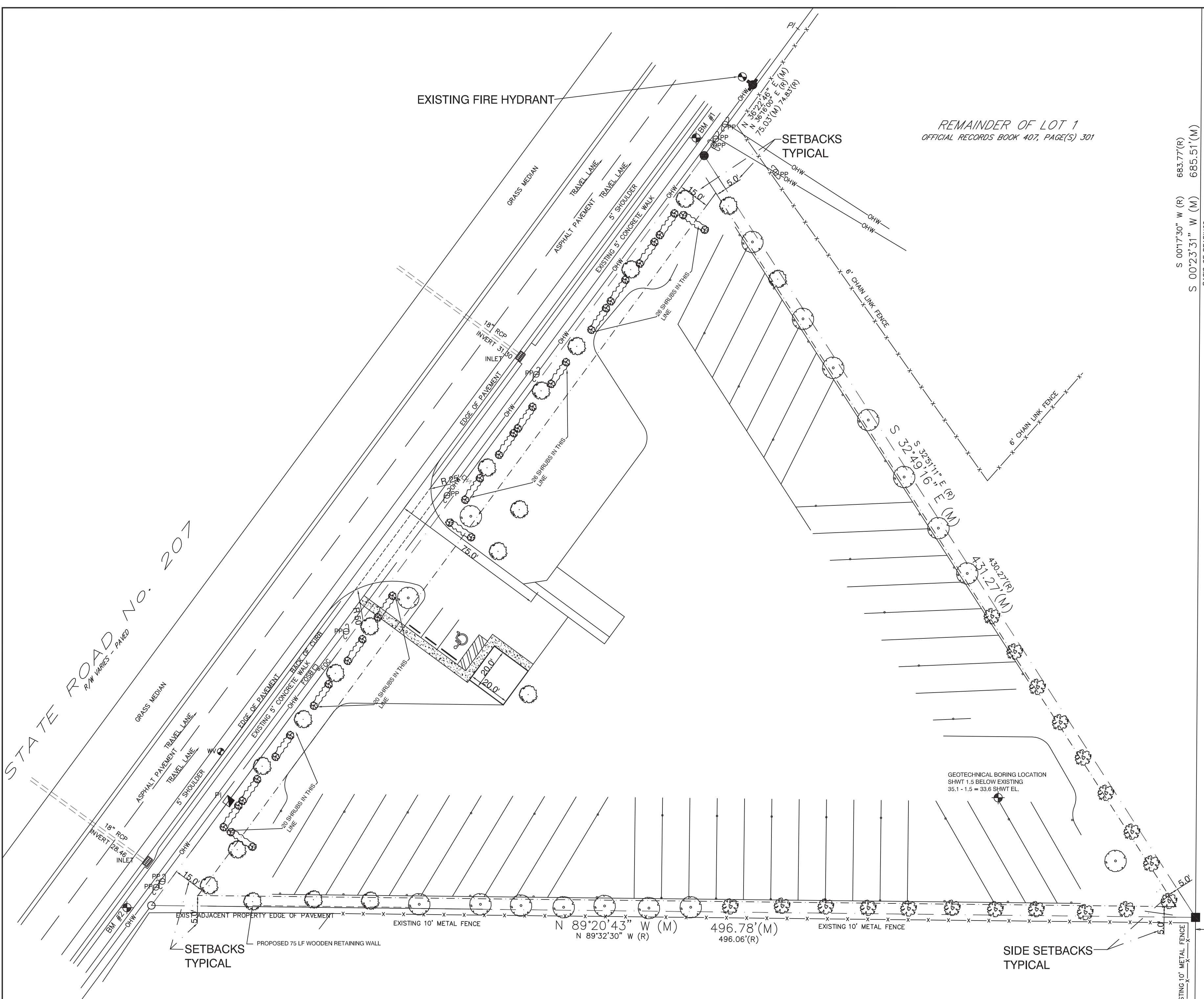
The entrance shall be maintained in a condition which will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 2\"/>

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, PAVED SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

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PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PART 1 AND PART 2," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK," AMERICAN NATIONAL STANDARDS INSTITUTE, LDC SEC. 6-6.02.D1

NOTES:

- ALL REQUIRED CONTINUOUS SHRUB LINES WILL BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, WHICH IS 24" HIGH WHEN PLANTED WITH MAX. 3' SPACING AND NOT BY CONTAINER SIZE.
- 100% OF THE NEW LANDSCAPING WILL BE IRRIGATED BY PRIVATE WELL.
- 4" OF PINE BARK OR PINE STRAW MULCH MIN. 5 FT DIAM. NO CLOSER THAN 6" TO TRUNK WILL BE PROVIDED AROUND ALL NEW PLANTED MATERIALS
- VEGETATION THAT EXCEEDS 25 FT IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED ANY CLOSER THAN 10 FT OF THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES.
- BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE CUT AWAY FROM TOP ONE THIRD OF ROOT BALL.
- NON-CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN 10 FT FROM OTHER TREES AND CANOPY TREES NO CLOSER THAN 20-30 FT DEPENDING ON SPECIES.
- SOIL IN TREE ISLANDS SHALL HAVE AT LEAST 12" OF SUITABLE SOIL FOR TREE PLANTINGS, AND BE VOID OF ANY CONSTRUCTION DEBRIS OR UNSUITABLE MATERIALS.
- TREE PLANTINGS SHALL NOT BE PLANTED CLOSER THAN 7.5 FT FROM THE CENTERLINE OF UNDERGROUND UTILITIES
- ALL IRRIGATION SYSTEMS ARE TO BE ALL LOW VOLUME WATER EFFICIENT IRRIGATION FOR WATER CONSERVATION
LOW VOLUME IRRIGATION NOT TO EXCEED 30 GALLONS PER HOUR
EXAMPLES OF LOW VOLUME IRRIGATION INCLUDE DRIP, SOAKER, BUBBLER, TRICKLE OR MICRO SYSTEMS.
- THE TREES TO BE PLANTED WILL BE ON A BUBBLER SYSTEM AND THE SHRUBS PLANTED WILL BE DRIP SYSTEM
- SOD WILL BE BAHIA AND WILL ONLY REQUIRE INITIAL IRRIGATION TO ESTABLISH
- TREES SHALL HAVE MINIMUM HEIGHT OF (8) EIGHT TO (10) TEN FEET AND (2) TWO INCHES OF CALIPER.
- HEIGHT OF FENCING TO BE MEASURED FROM THE FINISHED GRADE AT THE MINIMUM REQUIRED SETBACK OR BUFFER LINE OF THE PROPERTY REQUIRING THE FENCE

	DWARF WAX MYRTLES <i>Myrica cerifera var. pumila</i>	
	MAGNOLIAS	19 EA @ 4" = 4 x 19 = 76"
	RED CEDAR	19 EA @ 3" = 3 x 19 = 57"
	LIVE OAKS	17 EA @ 3" = 3 x 17 = 51"
		TOTAL INCHES = 184"

THERE ARE PINE TREES ON THE LOT THAT ARE BEING REMOVED BUT THEY ARE NOT PROTECTED

THERE IS 1 - 11" OAK & 1 - 12" CEDAR THAT WILL BE REMOVED

PROJECT SITE CONTAINS 2.0 ACRES

80 INCHES TIMES 2.0 = 160 REQUIRED INCHES

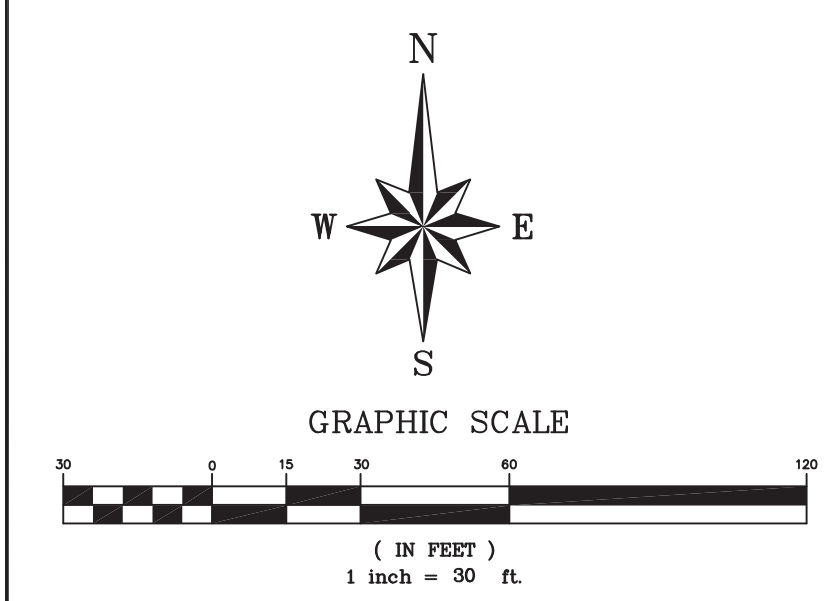
NO TREES TO BE PRESERVED

TREES TO BE REMOVED

23 INCHES REMOVED 183 INCHES REQUIRED TO BE PLANTED

184 INCHES ARE PLANTED

NO DEWATERING WILL BE REQUIRED ON THIS PROJECT



LANDSCAPE PLAN

TRINCA CENTER

65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633

Engineering, Inc.

Revisions

Date

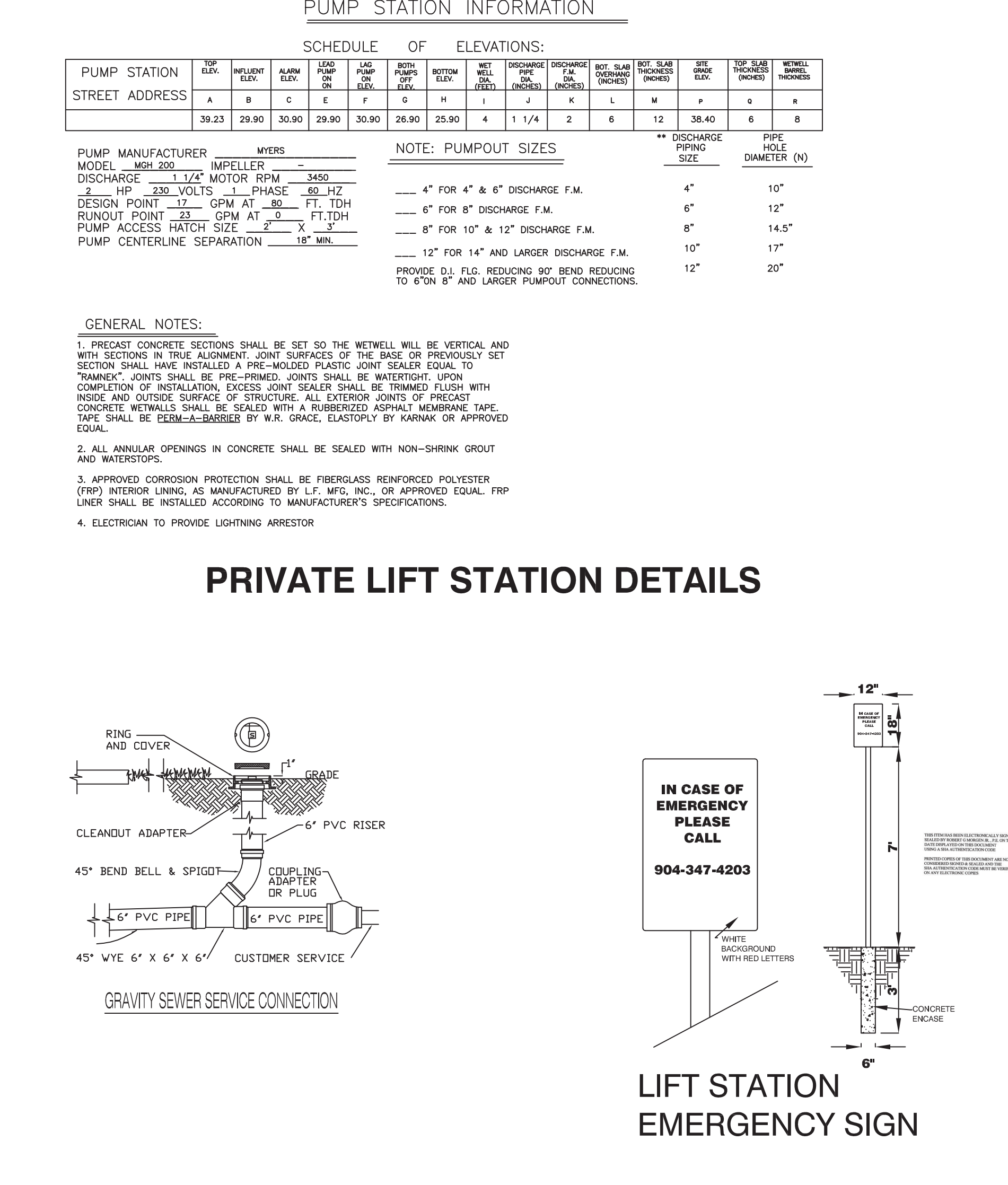
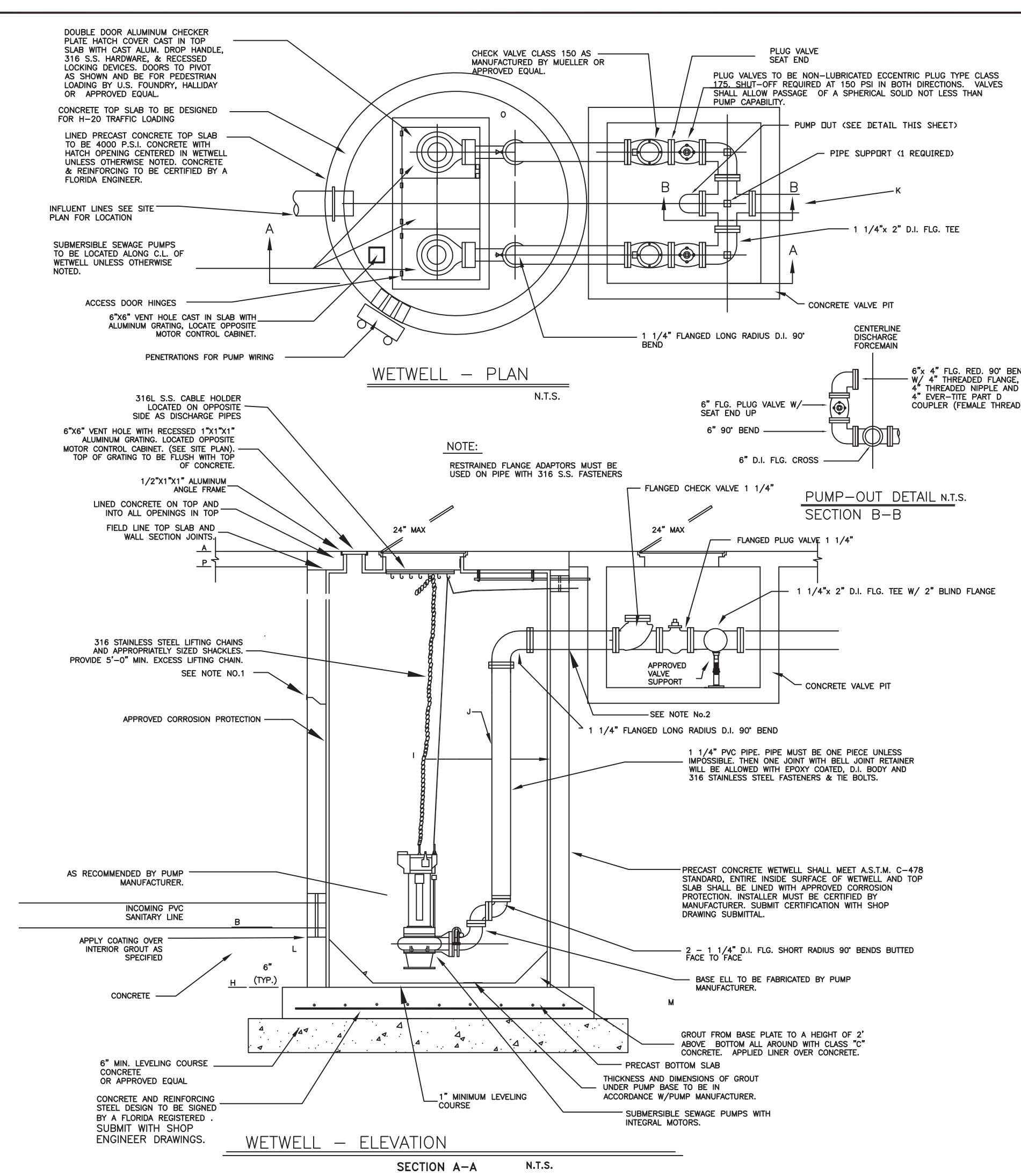
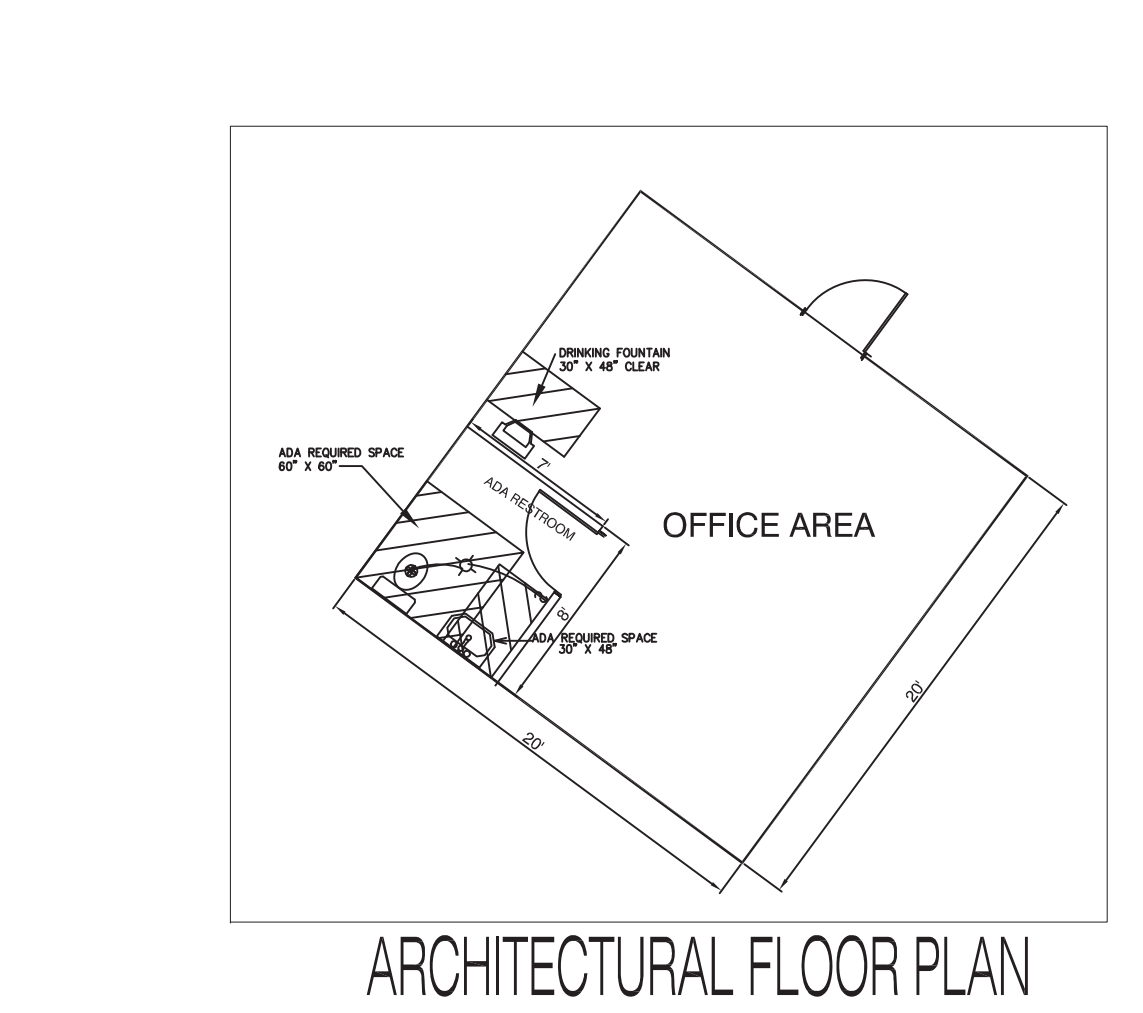
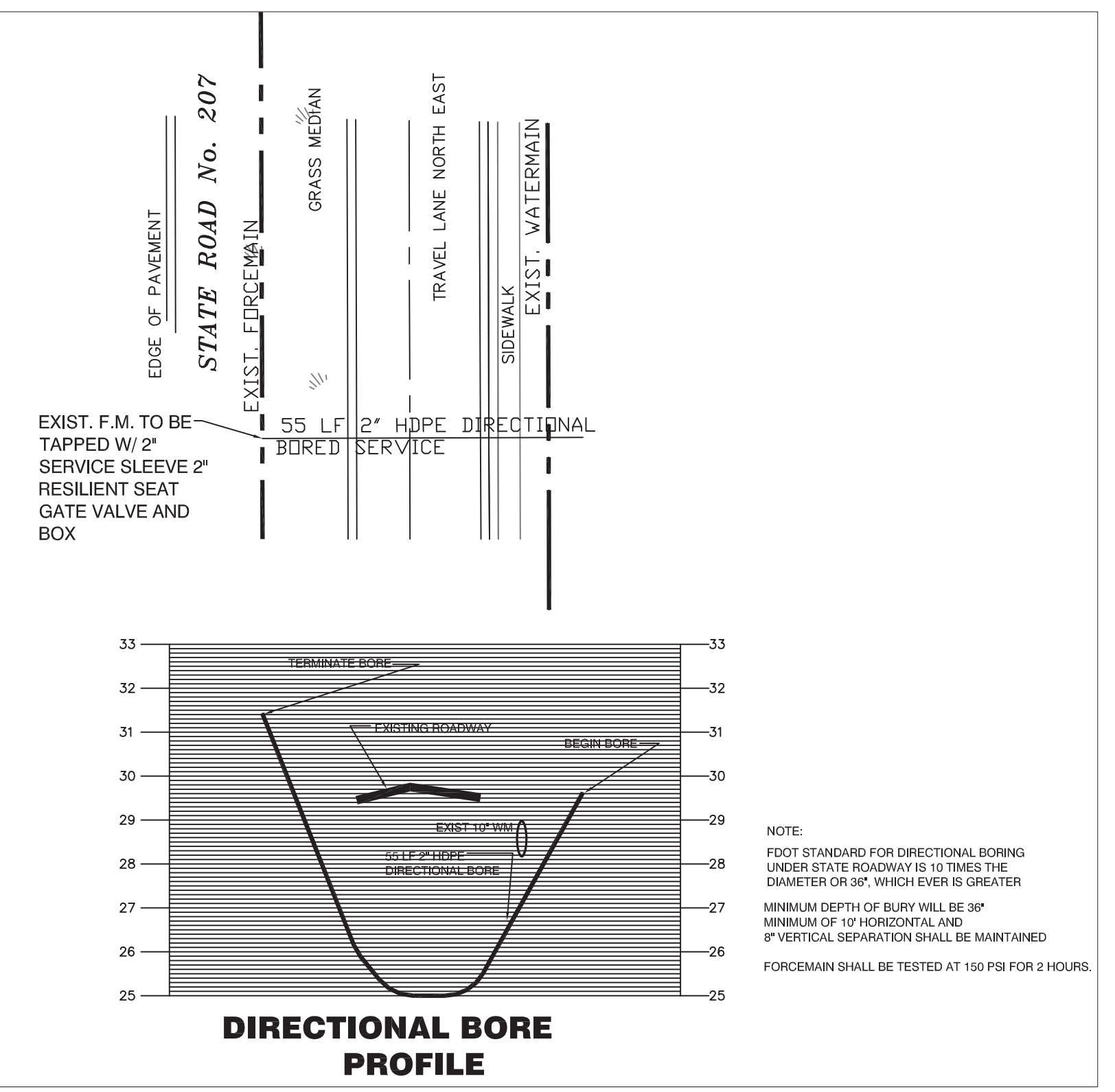
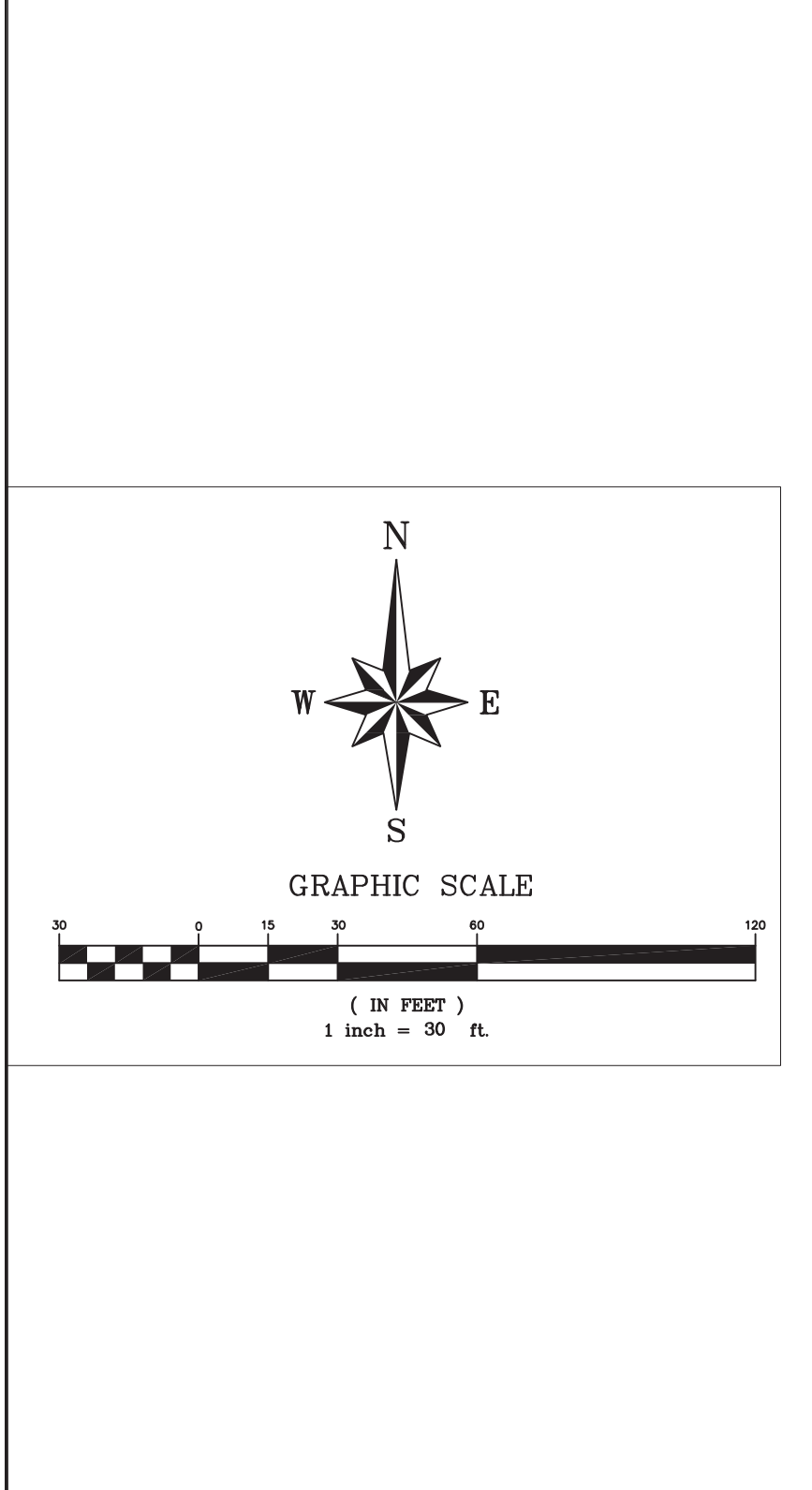
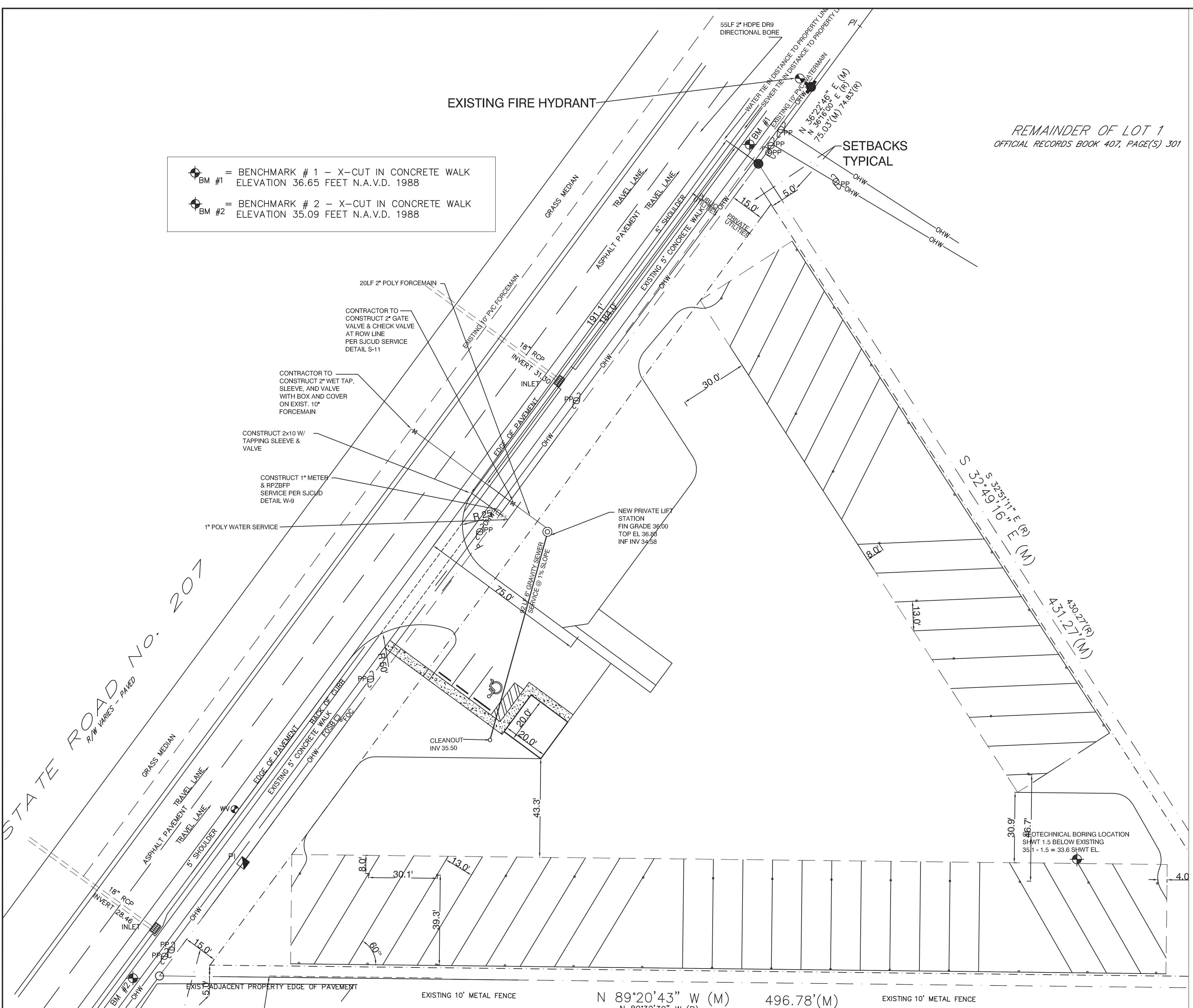
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OF 12

BERT G. MORGAN, JR., P.E.
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THIS PLAN HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY THE ENGINEER. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE SIGNATURE AND SEAL ARE CORRECT AND THE SEAL AUTHENTICATION CODE HAS NOT BEEN VERIFIED OR ANY ELECTRONIC CODES





Revisions

Date

65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633

Engineering, Inc.

TURINCA CENTER

WATER & SEWER PLAN

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ROBERT M. JENSEN, P.E.

2-2-24

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OF 12

ST. JOHNS COUNTY UTILITY DEPARTMENT (SJCUD) GENERAL NOTES

GENERAL:

1. TWO (2) COPIES OF THE SHOP DRAWINGS (STAMPED APPROVED BY THE ENGINEER) SHALL BE SUBMITTED TO SJCUD FOR REVIEW PRIOR TO SCHEDULING THE MANDATORY PRE-CONSTRUCTION CONFERENCE. THE INITIAL SHOP DRAWING REVIEW BY SJCUD WILL BE COMPLETED WITHIN FIFTEEN (15) WORKING DAYS. SUBSEQUENT SHOP DRAWING REVIEWS WILL BE COMPLETED WITHIN TEN (10) WORKING DAYS.
2. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED WITH THE DEVELOPER, THE ENGINEER OF RECORD, THE UTILITY CONTRACTOR, AND THE SJCUD PRIOR TO THE START OF ANY CONSTRUCTION. A PRE-CONSTRUCTION CONFERENCE WITH SJCUD IS REQUIRED REGARDLESS OF OTHER AGENCIES' REQUIREMENTS.
3. ALL WATER, SEWER, AND/OR REUSE CONSTRUCTION SHALL BE PERFORMED BY A CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES. A COPY OF THE CONTRACTOR'S GENERAL LICENSE AND/OR UNDERGROUND UTILITY LICENSE SHALL BE PROVIDED AT THE PRE-CONSTRUCTION CONFERENCE.
4. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL LOCATIONS & ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. THE CONTRACTOR(S) SHALL LOCATE, VERIFY, AND IDENTIFY ALL EXISTING UTILITIES AND UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THE PLANS PRIOR TO ANY EXCAVATING ACTIVITIES AND TAKE ALL MEASURES NECESSARY TO PROTECT UTILITIES DURING CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE AFFECTED UTILITY COMPANY, ENGINEER OF RECORD, COUNTY, AND SJCUD.
7. THE WATER, SEWER, AND/OR REUSE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SJCUD APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS. IF THERE IS ANY DEVIATION FROM THE APPROVED CONSTRUCTION DRAWINGS OR SPECIFICATIONS, WITHOUT PRIOR AUTHORIZATION AND CONSENT FROM THE SJCUD, THE CONTRACTOR SHALL REMOVE THE DEVIATION AND RESTORE IT TO THE APPROVED CONSTRUCTION DRAWING. CONFIGURATION AT NO EXPENSE TO THE SJCUD. ANY DEVIATIONS FROM THE APPROVED DOCUMENTS WILL DELAY THE COC SUBMITTAL PROCESS.
8. THE CONTRACTOR SHALL FIELD VERIFY THE CONNECTION POINTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD AND SJCUD IMMEDIATELY.
9. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED PER AVAILABLE MEANS WITHOUT EXCAVATION.
10. VERTICAL LOCATIONS OF ALL UTILITIES (EXCLUDING EXISTING STORM SEWERS) SHOWN ON PLAN AND PROFILE SHEETS HAVE BEEN REFERENCED TO A BENCH MARK SHOWN ON THE UTILITY PLANS. CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION NEAR EXISTING UTILITIES SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF LOCATION DIFFERS FROM THAT SHOWN ON THE PLANS BEFORE CONTINUING WITH CONSTRUCTION.
11. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SJCUD PRIOR TO CONTINUING CONSTRUCTION.
12. THE CONTRACTOR SHALL PROTECT SURVEY MARKERS, MONUMENTS, ETC. DURING CONSTRUCTION. THE CONTRACTOR SHALL RESTORE/REPLACE AT NO ADDITIONAL EXPENSE TO THE OWNER, ANY DAMAGE DONE BY CONSTRUCTION ACTIVITIES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY HIS OPERATIONS. ANY DAMAGE SHALL BE REPLACED/REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
14. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION AND BUILDING PLACEMENT WITH ALL OTHER UTILITIES CONSTRUCTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY UNSUITABLE MATERIAL FROM HIS OPERATION, FURNISHING AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
16. UNSUITABLE MATERIALS UNDER WATER, SEWER, AND/OR REUSE MAINS SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL PROPERLY COMPACTED TO 95% OF MAXIMUM DENSITY. BACKFILL SHALL BE COMPACTED IN A MAXIMUM OF ONE-FOOT (1) LIFTS. DENSITY TESTS SHALL BE TAKEN AFTER COMPACTION OF EVERY LIFT.
17. THE CONTRACTOR(S) SHALL NOTIFY ALL APPLICABLE UTILITIES COMPANIES, THE ENGINEER OF RECORD, AND THE PROPERTY OWNER 72 HOURS PRIOR TO INITIATING ANY EXCAVATION ACTIVITIES, OR AS SPECIFIED BY THE UTILITY COMPANIES AND THE PERMITS OBTAINED FOR THE WORK.
18. THE ENGINEER OF RECORD AND SJCUD SHALL BE GIVEN SEVENTY TWO HOURS (72-HR) NOTICE OF ALL REQUESTED MEETINGS AND/OR TESTING MEASURES RELATED TO THE PROJECT.
19. ALL WORK, MATERIALS, AND EQUIPMENT SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELEVANT ST. JOHNS COUNTY STANDARDS AND REQUIREMENTS AS WELL AS STATE AND LOCAL REGULATIONS.
20. ALL UNDERGROUND UTILITY EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE MANUAL OF WATER, WASTEWATER, AND REUSE DESIGN STANDARDS & SPECIFICATIONS, ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, AND THE APPROVED SITE PLANS.
21. ALL UTILITY CROSSINGS SHALL COMPLY WITH FDEP REGULATIONS (CH. 62-555.314, FAC).
22. ANY LANDSCAPING TREES SHALL BE PLACED AT A MINIMUM OF 7.5 FEET AWAY FROM THE EDGE OF PIPELINE TO THE EDGE OF THE TREE LINE.
23. ALL ROCK AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA AND ST. JOHNS COUNTY UTILITIES STANDARDS AND/OR PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES FOR NEW AND RELOCATED PIPE SHALL BE REMOVED TO A DEPTH OF AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE. CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED FOR NEW AND RELOCATED PIPES. THE BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE NEW AND RELOCATED PIPES AND TO A SUFFICIENT HEIGHT ABOVE SUCH PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE.

24. FOR WATER, WASTEWATER, AND REUSE MAINS SMALLER THAN 12 INCHES, THE MINIMUM AND MAXIMUM COVER SHALL BE 30 INCHES AND 36 INCHES, RESPECTIVELY, IN UNPAVED AREAS AND 36 INCHES AND 42 INCHES, RESPECTIVELY, IN PAVED AREAS, OR AS REQUIRED WITHIN FOOT OR RAILROAD RIGHTS-OF-WAY. FOR MAINS 12 INCHES OR GREATER, THE MINIMUM AND MAXIMUM COVER SHALL BE 42 INCHES AND 54 INCHES, RESPECTIVELY. EXCEPTIONS WILL BE MADE FOR CONFLICTS.
25. WHERE FORCE MAINS, WATER MAINS, OR REUSE MAINS ARE LAID WITHOUT FITTINGS, THE MAXIMUM DEFLECTION SHALL BE 80% OF THAT RECOMMENDED BY THE MANUFACTURER.
26. FITTINGS SHALL BE USED AT LOCATIONS INDICATED ON THE PLANS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ALL FITTINGS SHALL BE RESTRAINED PER THE RESTRAINED JOINT TABLE IN THE APPROVED PLAN SET.
27. ALL UNDERGROUND VALVES SHALL BE INSTALLED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH TOP SET TO FINAL GRADE IN ACCORDANCE WITH SJCUD DETAILS AND SPECIFICATIONS. ALL VALVES SHALL HAVE PEG LOCATORS (145.7 KILOHERTZ).
28. CONTRACTOR IS RESPONSIBLE FOR PROPER NOTIFICATION OF INSPECTING AUTHORITIES BEFORE AND DURING CONSTRUCTION.
29. CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) CALENDAR DAYS NOTICE TO SJCUD PRIOR TO SCHEDULING THE FINAL INSPECTION.

NOTICE OF PROCEDURE:

1. ALL COMMERCIAL BUILDING PERMITS AND METERS PROCESSED THROUGH SJCUD CUSTOMER SERVICE SHALL BE ACCOMPANIED BY A SET OF APPROVED CIVIL DESIGN PLANS.
2. ALL CONNECTIONS TO THE WATER, SEWER, AND/OR REUSE SYSTEM, FLUSHING, AND PRESSURE TESTS TO BE PERFORMED BY THE UTILITY CONTRACTOR OR LICENSED MASTER PLUMBER MUST BE SCHEDULED AT LEAST FIVE (5) WORKING DAYS IN ADVANCE WITH THE SJCUD. A SJCUD INSPECTOR MUST BE PRESENT PRIOR TO THE CONNECTION BEING MADE OR TESTING.
3. IT IS THE ENGINEER OF RECORD'S RESPONSIBILITY TO SECURE APPLICABLE PERMITS PRIOR TO CONSTRUCTION.
4. THE PROPERTY OWNER SHALL PURCHASE THE WATER METER THROUGH THE SJCUD ON PROJECTS THAT REQUIRE A WATER METER LARGER THAN ONE (1) INCH. THE OWNER'S CONTRACTOR SHALL INSTALL ALL METERS THREE (3) INCHES AND LARGER.
5. WATER, SEWER, AND/OR REUSE UNIT CONNECTION FEES SHALL BE PAID AT THE TIME OF BUILDING PERMIT APPLICATION.
6. ALL ON-SITE PRIVATE WATER, SEWER, AND/OR REUSE CONSTRUCTION BETWEEN THE METER AND BUILDING MAY BE INSPECTED BY THE SJCUD TO ENSURE STANDARDS ARE MET.
7. ALL REQUIREMENTS BY THE SJCUD (I.E. FINAL INSPECTION, CORRECTION OF PUNCH LIST ITEMS, "AS BUILTS", FDEP CERTIFICATION OF COMPLETION, ETC) MUST BE SATISFIED PRIOR OF ISSUANCE OF CERTIFICATES OF OCCUPANCY.

POTABLE WATER SYSTEMS NOTES:

1. ALL WATER MAINS 4" THROUGH 12" DIAMETER SHALL BE PVC C-900, DR-18, COLOR "BLUE" WITH PUSH-ON GASKETED JOINTS OR C-906 HDPE DR 11 COLOR "BLUE" OR DIP CLASS 350.
2. ALL WATER MAINS 16" THROUGH 20" DIAMETER SHALL BE PVC C-905, DR-25, COLOR "BLUE" WITH PUSH-ON GASKETED JOINTS OR C-906 HDPE DR 11 COLOR "BLUE" OR DIP CLASS 250.
3. ALL WATER MAINS 24" AND LARGER DIAMETER SHALL BE DUCTILE IRON PIPE.
4. ALL WATER LINES 2" DIAMETER OR LESS SHALL BE HDPE CTS DR 9 COLOR "BLUE".
5. ALL CURB STOPS ARE TO BE BALL-TYPE WITH LOCKING CAPACITY, 1" MINIMUM.
6. THE SEPARATION REQUIREMENT BETWEEN POTABLE WATER MAINS AND OTHER UTILITIES SHALL BE PER CH. 62-555, FAC.
7. A FULL UNCOIT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF THE VERTICAL SEPARATIONS.
8. WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH THE APPROVAL OF THE ST. JOHNS COUNTY HEALTH DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED CONTAMINATION.
9. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, CLEARED FOR SERVICE AND ACCEPTED FOR MAINTENANCE BY THE SJCUD AND FDEP.
10. JUMPER CONNECTIONS WITH BACKFLOW PREVENTION DEVICE SHALL BE USED TO FILL OR FLUSH WATER MAINS
11. ALL NEW AND RELOCATED WATER MAIN PIPE, FITTINGS, VALVES, AND FIRE HYDRANTS SHALL BE IN CONFORMANCE WITH APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) AND SJCUD STANDARDS.
12. ALL NEW AND RELOCATED WATER MAIN PIPE AND FITTINGS WILL COMPLY WITH THE LATEST FDEP AND AWWA STANDARDS FOR LEAD CONTENT.
13. ALL NEW AND RELOCATED WATER MAINS SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C605, LATEST EDITION.
14. ALL NEW AND RELOCATED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 AND RULE 62-555.340, F.A.C.
15. ALL NEW AND RELOCATED WATER SERVICES SHALL BE IN CONFORMANCE WITH THE STATE PLUMBING CODE AND SJCUD STANDARDS.
16. THE BACTERIOLOGICAL SAMPLE POINTS SHALL BE INDICATED ON THE AS BUILT DRAWINGS. THE SAMPLE POINT NUMBERING AND STATIONING SHALL CORRESPOND TO THOSE ON THE BACTERIOLOGICAL SAMPLE CHAIN OF CUSTODY FORMS.

WASTEWATER SYSTEM NOTES:

1. INTERIOR LINERS ARE REQUIRED ON JUNCTION MANHOLES WITH THREE OR MORE INVERTS.
2. SANITARY SEWER LINE TO DEPTHS UP TO 10' SHALL BE SDR-35 PVC PIPE CONFORMING TO ASTM D-3034 COLORED GREEN. SANITARY SEWER LINE OF DEPTHS 10' TO 15' SHALL BE SDR-26 PVC. ALL SANITARY SEWER LINES SHALL BE GREEN AND CLEARLY MARKED ON THE PIPE.
3. SANITARY SEWER FORCE MAIN 4" AND LARGER SHALL BE C900 DR25 PVC PIPE CONFORMING TO ASTM D-1784, D-1785, AND D-2241. DUCTILE IRON PIPE SHALL ONLY BE USED WITH PRIOR APPROVAL BY THE SJCUD. SANITARY FORCE MAIN SHALL BE COLOR CODED GREEN AND CLEARLY MARKED.
4. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD AND SJCUD ALL VIDEO LOGS, WRITTEN REPORTS, AND DEFLECTION TEST RESULTS FOR REVIEW AND APPROVAL.
5. THE CONTRACTOR SHALL CONTACT SJCUD PRE-TREATMENT DEPARTMENT AT (904) 209-2663 FOR INSPECTION AFTER INSTALLATION OF GREASE TRAPS, INTERCEPTORS, AND/OR OIL-WATER SEPARATORS.
6. ALL FORCE MAIN LINES 2" SHALL BE HDPE CTS OR 9 COLOR "GREEN".

AS-BUILTS:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRODUCE, SUBMIT AND OBTAIN APPROVAL OF REPRODUCIBLE "AS-BUILT" DRAWINGS FROM JURISDICTIONAL AGENCIES AS MAY BE REQUIRED.
2. "AS-BUILT" INFORMATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO DETERMINE ALL "AS-BUILT" INFORMATION. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE UP TO SIX COPIES AND THE CAD FILE OF AS-BUILT DRAWINGS TO THE ENGINEER.
3. A MINIMUM OF FIVE WORKING DAYS PRIOR TO THE FINAL INSPECTION, TWO (2) SETS OF PRELIMINARY BLACKLINE "AS-BUILTS" AND COPY ON DISK IN AUTOCAD FORMAT SHOWING THE REQUIRED INFORMATION, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.
4. THE RECORD OR "AS BUILT" DRAWINGS TO BE PREPARED BY THE CONTRACTOR AND SUBMITTED AT THE TIME OF THE AS-BUILT FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE WILL CLEARLY DEPICT THE VERTICAL CLEARANCES BETWEEN WATER, SEWER (INCLUDING STORM) AND REUSE LINES AT ALL CROSSING AND PARALLEL RUNS WHERE THE HORIZONTAL SEPARATION IS LESS THAN 10 FEET. IN ADDITION, THE CENTERING OF UNCOIT LENGTHS OF PIPE (USUALLY 20 FEET) AT POINTS OF CROSSINGS WILL BE DOCUMENTED ON THE DRAWINGS AND ALL MITIGATING CONSTRUCTION MEASURES CLEARLY DEPICTED IN CASES WHERE A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE BETWEEN THE WATER AND SEWER (INCLUDING STORM) LINES IS NOT POSSIBLE.
5. AFTER SJCUD HAS APPROVED PRELIMINARY "AS BUILT", THREE (3) SETS OF BLACKLINE AS-BUILTS (SIGNED AND SEALED), ONE SET OF MYLARS AS BUILT (SIGNED), AND COPY ON DISK IN AUTOCAD FORMAT SHOWING THE REQUIRED INFORMATION, SHALL BE SUBMITTED TO SJCUD THROUGH ST. JOHNS COUNTY DEVELOPMENT SERVICES.

STANDARD WATER/SEWER/RECLAIMED WATER SEPARATION STATEMENT:

THE CONTRACTOR SHALL INSTALL ALL MAINS IN ACCORDANCE WITH THE REQUIREMENTS OF RULE 62-555.314, FAC, BELOW. THE CONTRACTOR SHALL NOTIFY SJCUD IN ANY INSTANCE WHERE THE BELOW REQUIREMENTS CANNOT BE MET PRIOR TO INSTALLATION OF PIPE.

*62-555.314 LOCATION OF PUBLIC WATER SYSTEM MAINS.

FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.

(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART OF CHAPTER 62-610, F.A.C.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

(D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(C) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART OF CHAPTER 62-610, F.A.C.

(3.) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.

(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

(B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE), THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E., THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFLICT MANHOLES); BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND MUST PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION THE FOLLOWING INFORMATION:

1. TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.
2. A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.
3. ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-SUBPARAGRAPHS A. THROUGH D. BELOW.

A. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.

B. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).

C. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.

D. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

(4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS, NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

(5) EXCEPTIONS, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:

(A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER UNDERGROUND WATER MAIN OR WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE:

1. USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;
2. USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR
3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

(B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:

1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND
2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER."

HYDROSTATIC TESTING NOTES:

1. AFTER ALL PRESSURE PIPES ARE INSTALLED, THE JOINTS COMPLETED, AND THE TRENCH BACKFILLED, THE NEWLY LAID PIPE AND APPURTENANCES SHALL BE SUBJECTED TO A HYDROSTATIC TEST FOR A PERIOD OF AT LEAST TWO (2) HOURS. THE ENGINEER AND THE SJCUD MUST BE NOTIFIED AT LEAST 72 HOURS BEFORE A TEST IS TO BE PERFORMED. TEST SHALL BE AS SET FORTH IN AWWA STANDARD C605. ANY LEAKS DETECTED SHALL BE CORRECTED AND THE SECTION OF PIPELINE RETESTED. THE TWO HOUR TEST PERIOD SHALL BEGIN WHEN ALL JOINTS HAVE BEEN DETERMINED TO BE WATER TIGHT. LEAKAGE SHALL BE LIMITED TO THAT ALLOWANCE SET FORTH IN SECTION 4 OF AWWA STANDARD C600 LATEST EDITION. HYDROSTATIC AND LEAKAGE TEST AND BLOW-DOWN (ZEROING OF GAGE) MUST OCCUR BEFORE SAMPLING FOR BACTERIOLOGICAL TEST. THE MAXIMUM ALLOWABLE PRESSURE LOSS IS 5 PSI.

NO.	BY	DATE	SYMBOL	REVISIONS	DESIGNER:	DESIGN ENGINEER	NO. SHEETS
1					DESIGNED BY:		1
2					DATE:		1
3					CHECKED BY:	FLORIDA REGISTRATION NO.	1
4					DATE:		1
5							1
6							1
7	ETS	2015		REVISION 2			1

**ST. JOHNS COUNTY
UTILITY DEPARTMENT**

1205 STATE ROAD 18
ST AUGUSTINE, FLORIDA 32084-0040
Phone (904) 209-2700 • Fax. (904) 209-2702

GENERAL NOTES

SJCUD STANDARD DRAWING FOR REFERENCE 2017-07-10

Revisions

Date

65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633

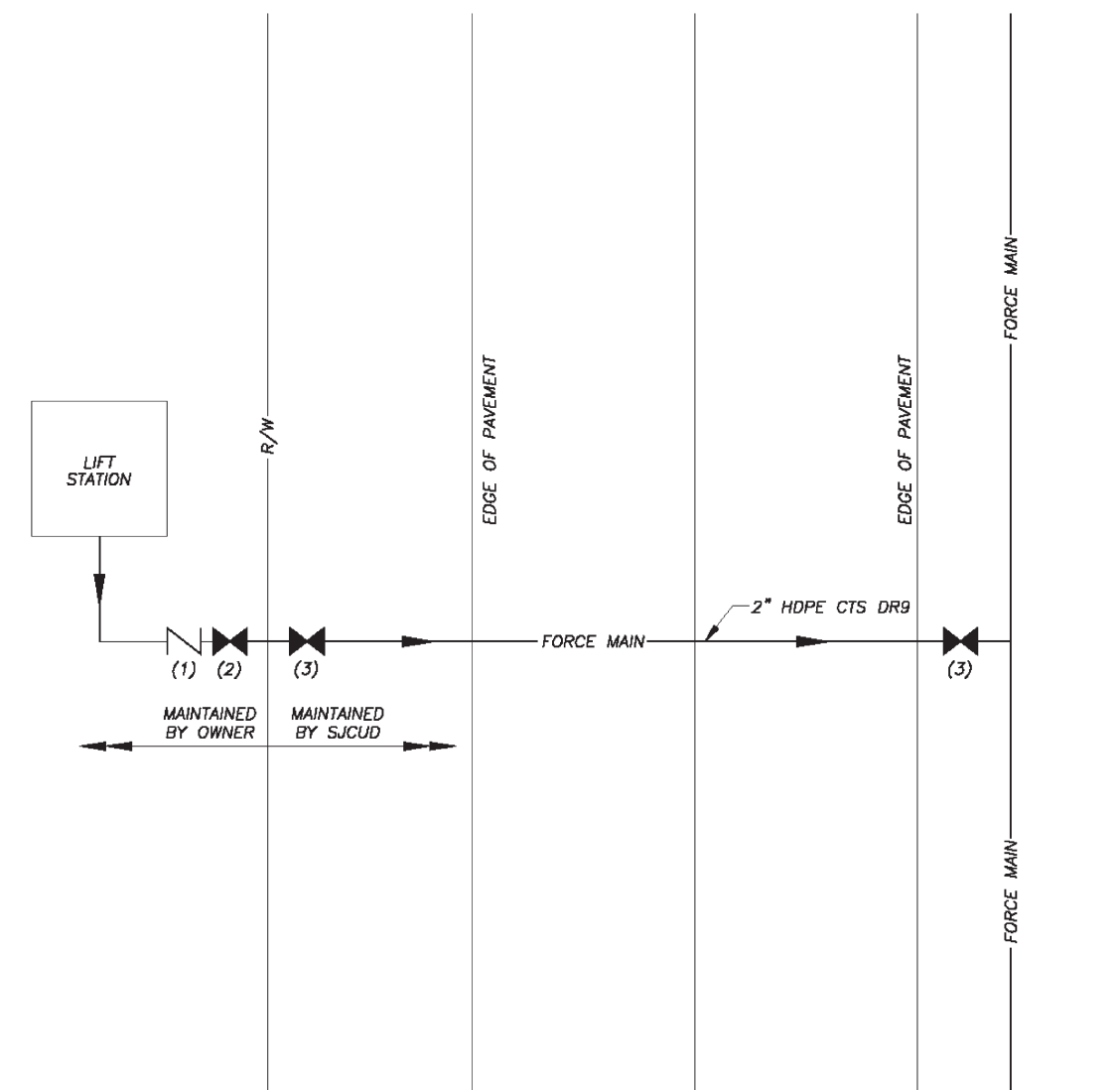
RGM
Engineering, Inc.

TURINCA CENTER

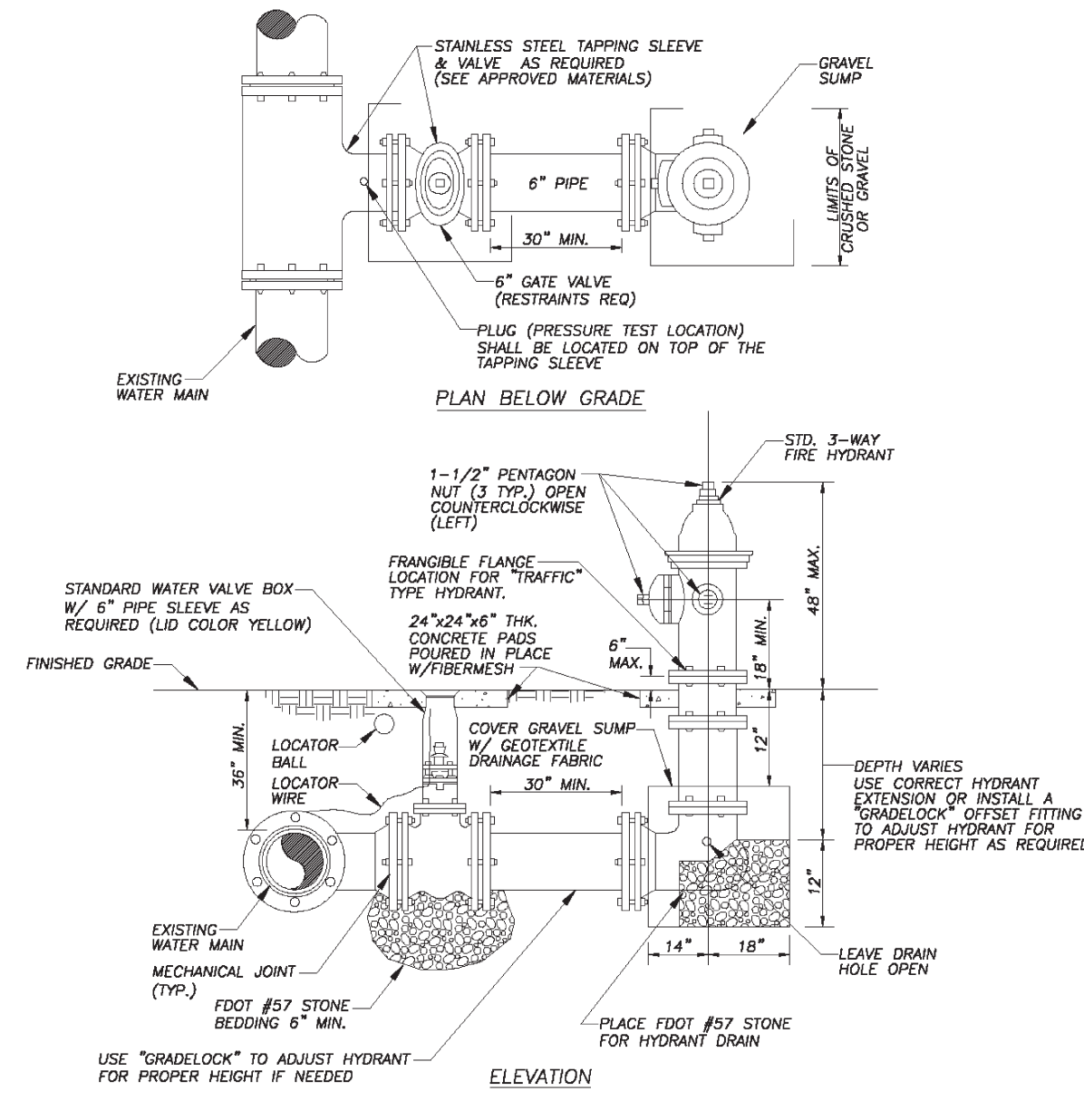
SJC UTILITY GENERAL NOTES

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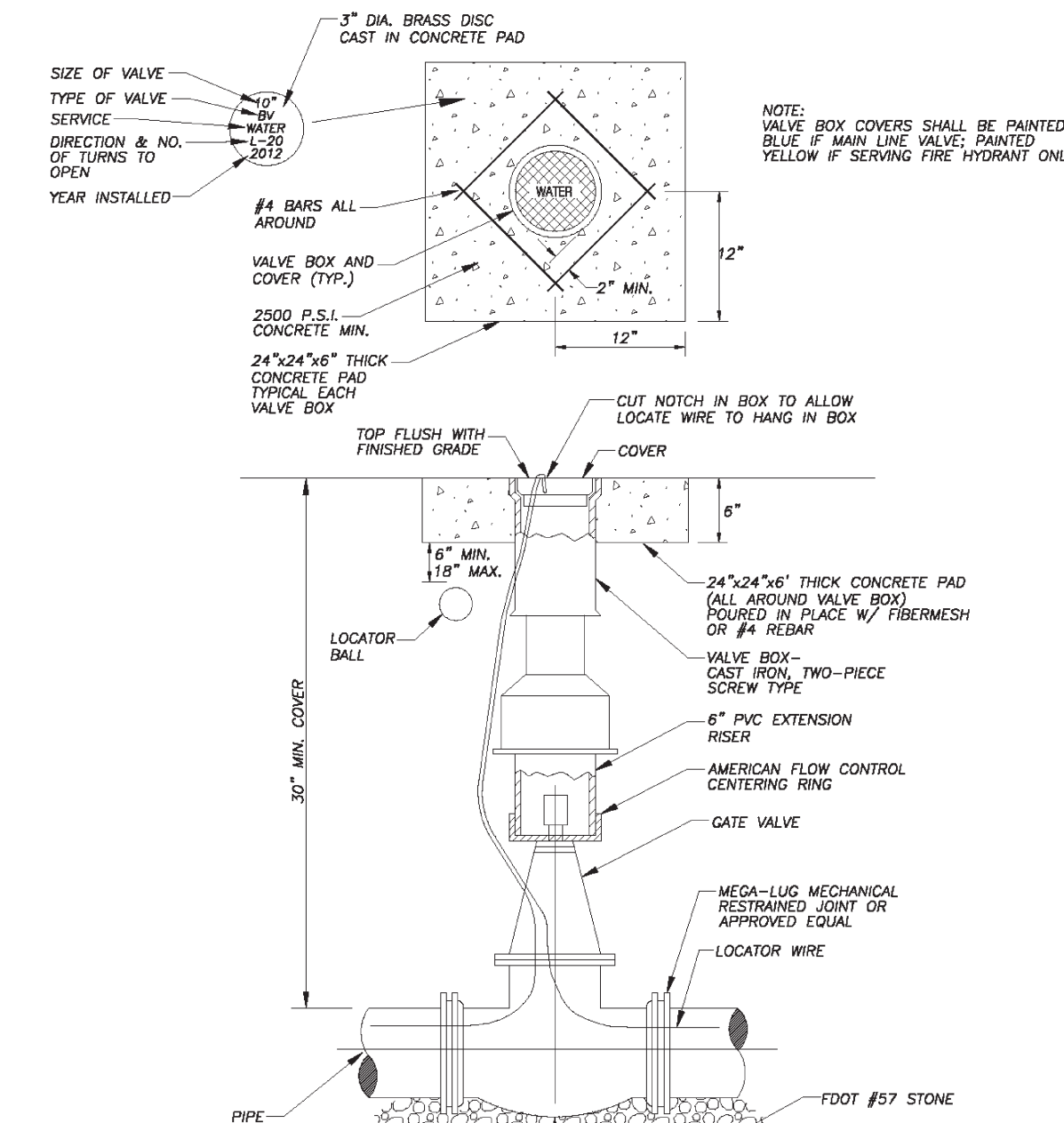
2-2-24
7
OF 12



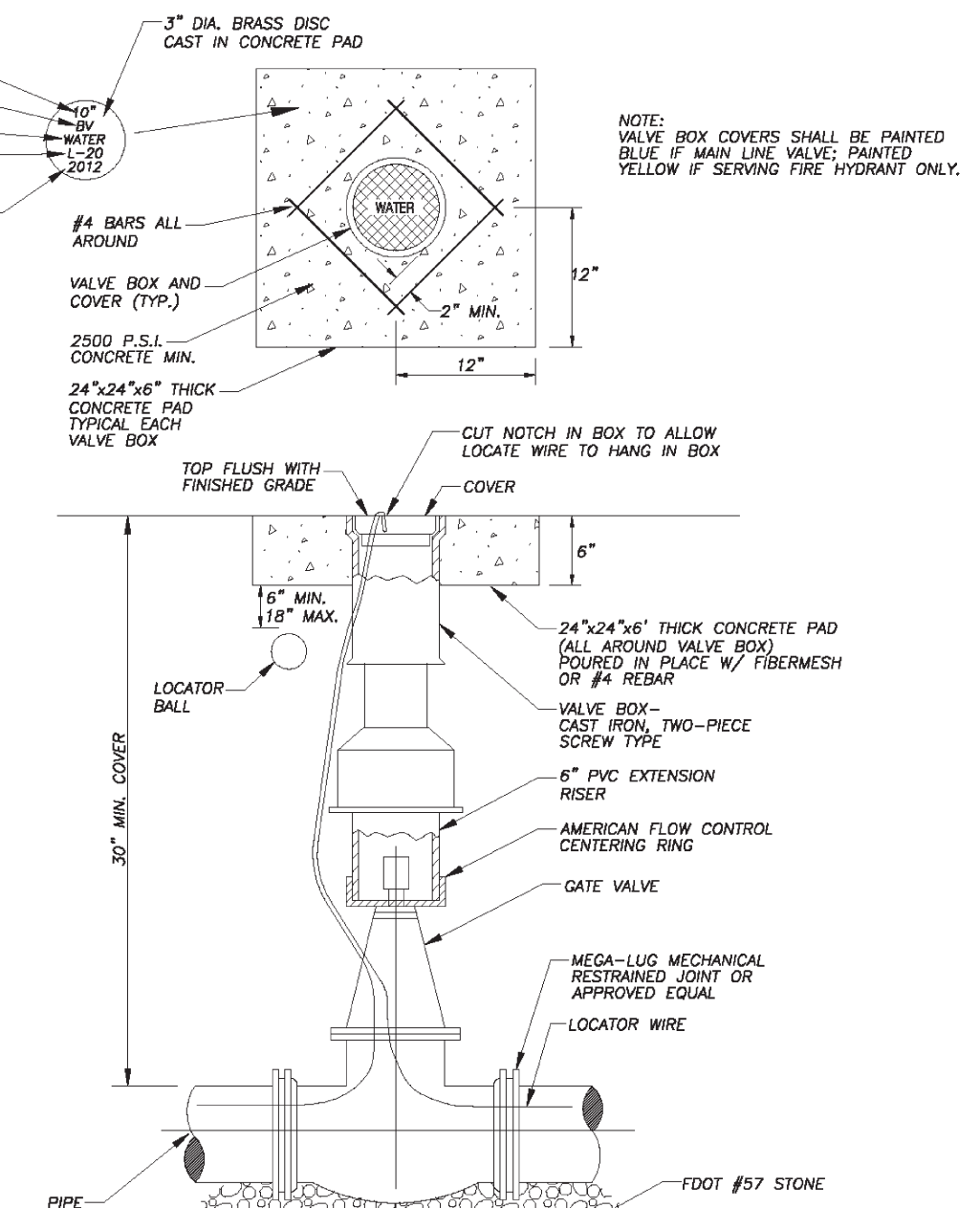
- LEGEND:**
- (1) BRASS SWING CHECK VALVE LOCATED ON PRIVATE PROPERTY NEAR R/W LINE
 - (2) PRIVATE ISOLATION VALVE WITH BOX & COVER LOCATED ON PRIVATE PROPERTY NEAR R/W LINE
 - (3) GATE VALVE WITH BOX & COVER LOCATED IN R/W



- NOTES:**
- FIRE HYDRANTS SHALL HAVE 3/4" VALVE OPENING AND SHALL BE PER SJCD APPROVED MATERIALS.
 - FIRE HYDRANTS SHALL BE PAINTED CHROME YELLOW IN ACCORDANCE WITH CURRENT ST. JOHNS COUNTY LAND DEVELOPMENT CODE.
 - INSTALL BLUE TRAFFIC SPOTTERS AS PER LOCAL FIRE CODE REQUIREMENTS.
 - SEE CURRENT ST. JOHNS COUNTY LAND DEVELOPMENT CODE FOR MIN./MAX. DISTANCE FROM CURB OR CONDUCT FIRE MARSHAL'S OFFICE AT 2008-1740.
 - NO FIRE HYDRANTS SHALL BE LOCATED AT STREET CORNERS.
 - HYDRANTS IN SUBDIVISIONS SHOULD BE LOCATED ON LOT LINES.



- NOTES:**
- NOT EXTENSION REQUIRED IF VALVE NUT IS DEEPER THAN 3" BELOW GRADE.
 - BRASS I.D. FOR ALL SIZES.
 - SCORE 1/2" DEEP GROOVE IN CONCRETE PAD TO DENOTE ORIENTATION OF PIPE.
 - LOCATION OF VALVE TO BE MARKED BY LETTER "V" SCORED A MINIMUM OF 4" HIGH AND 1/4" DEEP IN CURB AND CURB PAINTED BLUE FOR WATER, GREEN FOR SEWER, PANTONE PURPLE 522C FOR REUSE.



- NOTES:**
- NOT EXTENSION REQUIRED IF VALVE NUT IS DEEPER THAN 3" BELOW GRADE.
 - BRASS I.D. FOR ALL SIZES.
 - SCORE 1/2" DEEP GROOVE IN CONCRETE PAD TO DENOTE ORIENTATION OF PIPE.
 - LOCATION OF VALVE TO BE MARKED BY LETTER "V" SCORED A MINIMUM OF 4" HIGH AND 1/4" DEEP IN CURB AND CURB PAINTED BLUE FOR WATER, GREEN FOR SEWER, PANTONE PURPLE 522C FOR REUSE.

REVISIONS	Date	Comments
2016	REVISION 2	
2015	REVISION 1	

CONNECTION DETAIL OF PRIVATE LIFT STATION TO ST. JOHNS COUNTY UTILITIES
SCALE: N.T.S.

PLATE: S-11

REVISIONS	Date	Comments
2015	REVISION 2	
9/09	REVISION 1	

FIRE HYDRANT INSTALLATION USING TAPPING SLEEVE AND VALVE
SCALE: N.T.S.

PLATE: W-2

REVISIONS	Date	Comments
2015	REVISION 2	
9/09	REVISION 1	

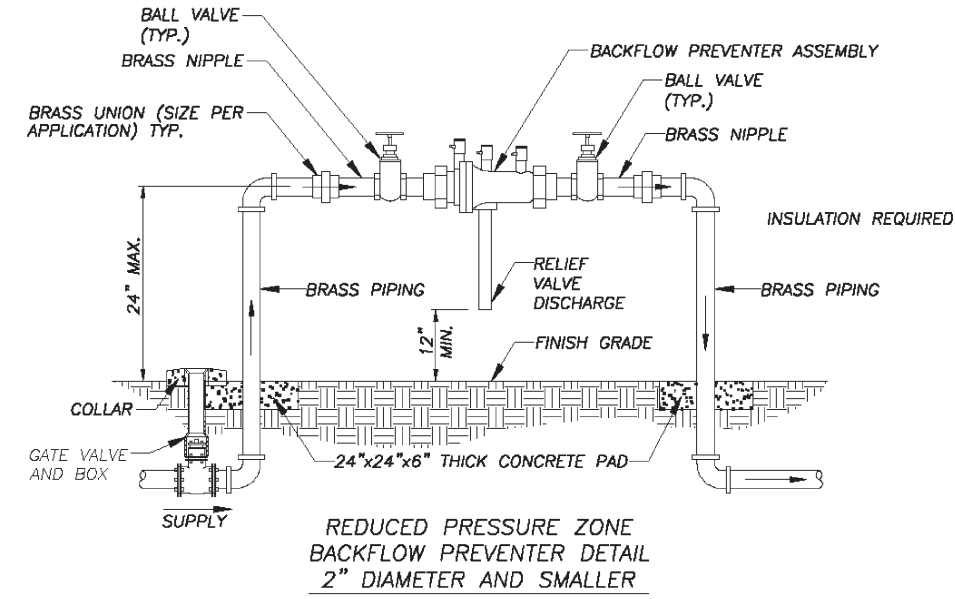
GATE VALVE & BOX FOR UNPAVED LOCATIONS 4"-16"
SCALE: N.T.S.

PLATE: W-3

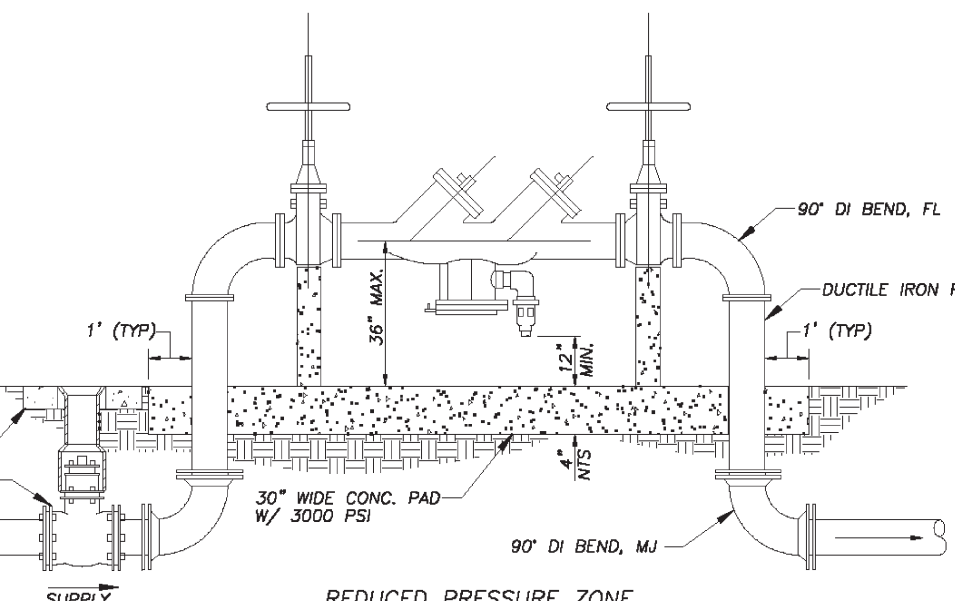
REVISIONS	Date	Comments
2015	REVISION 2	
9/09	REVISION 1	

GATE VALVE & BOX FOR UNPAVED LOCATIONS 4"-16"
SCALE: N.T.S.

PLATE: W-3



REDUCED PRESSURE ZONE BACKFLOW PREVENTER DETAIL 2" DIAMETER AND SMALLER



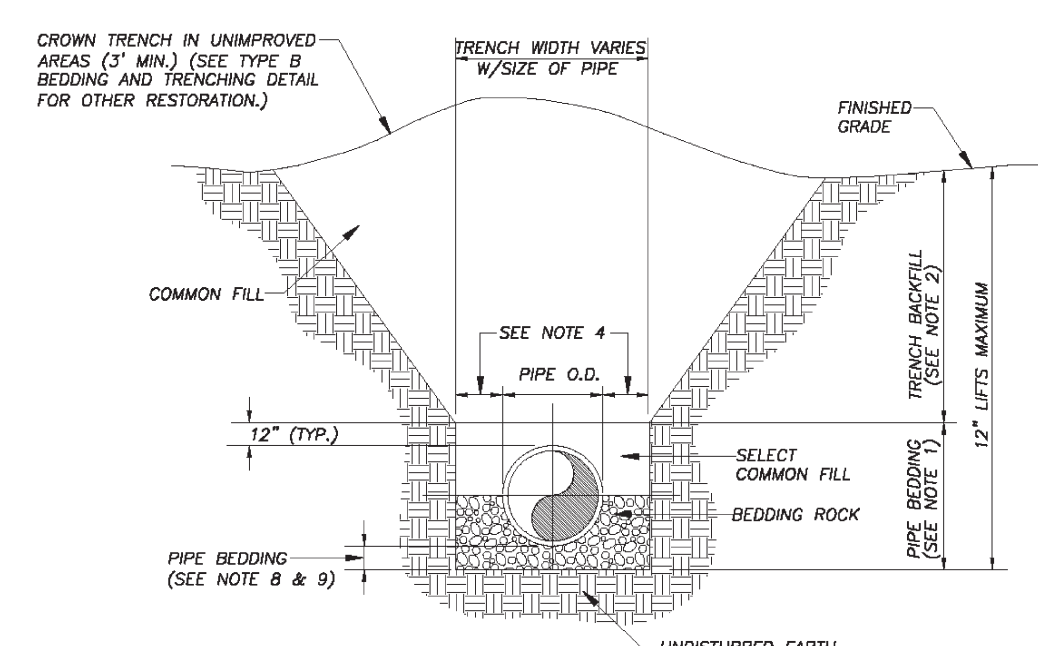
REDUCED PRESSURE ZONE BACKFLOW PREVENTER SIZES 4" & ABOVE

NOTE: RECOMMEND USING PRESSURE RELIEF VALVE ON OUTLET SIDE FOR FREEZE PROTECTION.

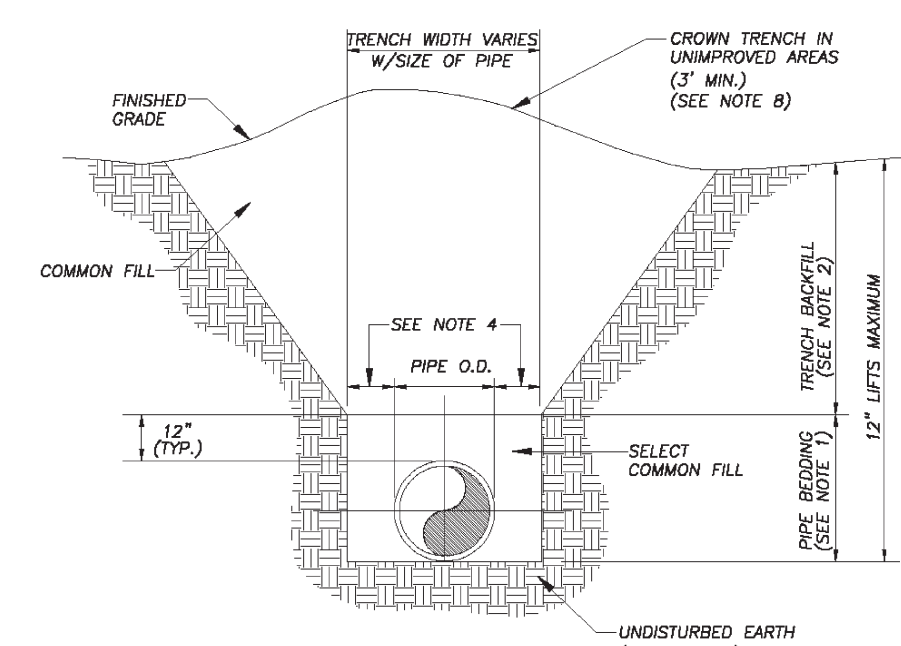
NOM. PIPE SIZE (IN.)	RESTRAINT JOINT TABLE								
	MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTINGS (FEET)			VERTICAL BENDS (DEG.)					
	ELBOWS (DEG.)	PLUG	VALVE	11.25°	22.5°	45°			
4	3	7	13	70	70	7	14	29	
6	5	9	18	43	99	99	10	20	41
8	6	12	23	56	129	129	13	26	54
10	7	14	28	66	154	154	16	31	64
12	8	16	32	78	182	182	18	37	76
14	9	18	37	88	207	207	21	42	86
16	10	20	41	99	233	233	23	47	97
18	11	22	45	109	258	258	26	52	107
20	12	24	49	118	282	282	28	56	117

NOM. PIPE SIZE (IN.)	RESTRAINT JOINT TABLE																	
	MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTINGS (FEET)									REDUCERS (**)(REDUCED SIDE)								
	TEES (*) (BRANCH SIDE ONLY)									REDUCERS (**)(REDUCED SIDE)								
4	25	25	25	25	25	25	25	25	25	51	51	51	51	51	51	51	51	51
6	25	25	25	25	25	25	25	25	25	93	93	93	93	93	93	93	93	93
8	25	25	25	25	25	25	25	25	25	126	126	126	126	126	126	126	126	126
10	25	25	25	25	25	25	25	25	25	158	158	158	158	158	158	158	158	158
12	25	25	25	25	25	25	25	25	25	187	187	187	187	187	187	187	187	187
14	25	25	25	25	25	25	25	25	25	215	215	215	215	215	215	215	215	215
16	25	25	25	25	25	25	25	25	25	242	242	242	242	242	242	242	242	242
18	25	25	25	25	25	25	25	25	25	268	268	268	268	268	268	268	268	268
20	25	25	25	25	25	25	25	25	25	294	294	294	294	294	294	294	294	294

- NOTES:**
- (*) 25' MIN. EACH RUN SIDE OF TEES.
 - (**) LENGTH SHOWN IS FOR LARGE SIDE OF REDUCER, 25' MIN. ON SMALL SIDE.
 - RESTRAINED LENGTHS DETERMINED USING EBM IRON - RESTRAINT LENGTH CALCULATOR 6.3 WITH THE FOLLOWING CONSTIANIS AS INPUT / ASSUMPTIONS:
 - PIPE MATERIAL = PVC
 - SAFETY FACTOR = 2:1
 - TRENCH TYPE = 3
 - DEPTH OF BURRY = 3'
 - TEST PRESSURE = 150 PSI
 - GATE VALVES = DEAD ENDS
 - LENGTH ALONG RUN FOR TEES = 20'
 - SOIL TYPE = M
 - IF THE ANY OF THE ASSUMPTIONS / INPUTS STATED IN NOTE 3 NEED TO BE REVISED TO FIT PROJECT CONDITIONS, THE ENGINEER OF RECORD SHALL SUBMIT A REVISED MECHANICAL JOINT TABLE TO BE USED ON THE PROJECT. HOWEVER, THE ENGINEER OF RECORD MUST SUBMIT SIGNED AND SEALED CALCULATIONS TO SJCD FOR REVIEW AND APPROVAL.



- NOTE:**
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
 - USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.
 - 12" MINIMUM, 18" MAXIMUM FOR PIPE DIAMETER LESS THAN 24", AND 24" MAXIMUM FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - REFER TO SECTION 3.3 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
 - GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE COUNTY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 16", AND 6" MINIMUM DEPTH FOR PIPE DIAMETER 16" AND LARGER.
 - DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. COUNTY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
 - ALL TRENCHING SHALL BE IN ACCORDANCE WITH FLORIDA TRENCH SAFETY ACT.



- NOTE:**
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE COUNTY.
 - 12" MINIMUM, 18" MAXIMUM FOR PIPE DIAMETER LESS THAN 24", AND 24" MAXIMUM FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - REFER TO SECTION 3.3 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CULVERT RIGHTS-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
 - ALL TRENCHING SHALL BE IN ACCORDANCE WITH FLORIDA TRENCH SAFETY ACT.

REVISIONS	Date	Comments
2015	REVISION 2	
9/08	REVISION 1	

TYPICAL REDUCED PRESSURE ZONE ASSEMBLY
SCALE: N.T.S.

PLATE: W-6

REVISIONS	Date	Comments
2015	REVISION 2	
9/08	REVISION 1	

RESTRAINED JOINT TABLE
SCALE: N.T.S.

PLATE: W-11

REVISIONS	Date	Comments
2015	REVISION 2	
9/08	REVISION 1	

TYPE A BEDDING & TRENCHING
SCALE: N.T.S.

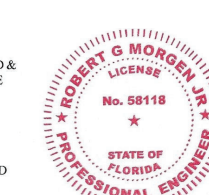
PLATE: W-13

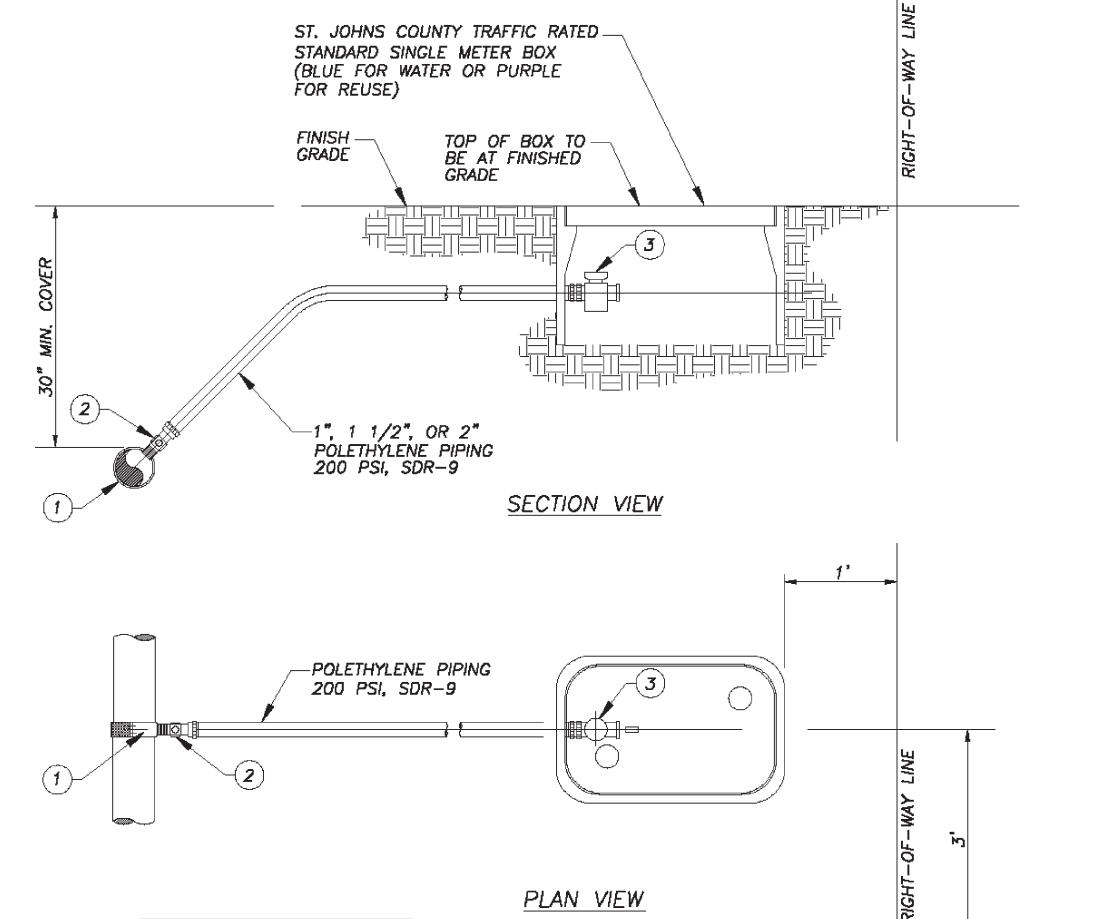
REVISIONS	Date	Comments
2015	REVISION 2	
9/08	REVISION 1	

TYPE B BEDDING & TRENCHING
SCALE: N.T.S.

PLATE: W-14

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NO.	ITEM
1	SERVICE SADDLE
2	CONNECTION STOP
3	BALL YOKER VALVE

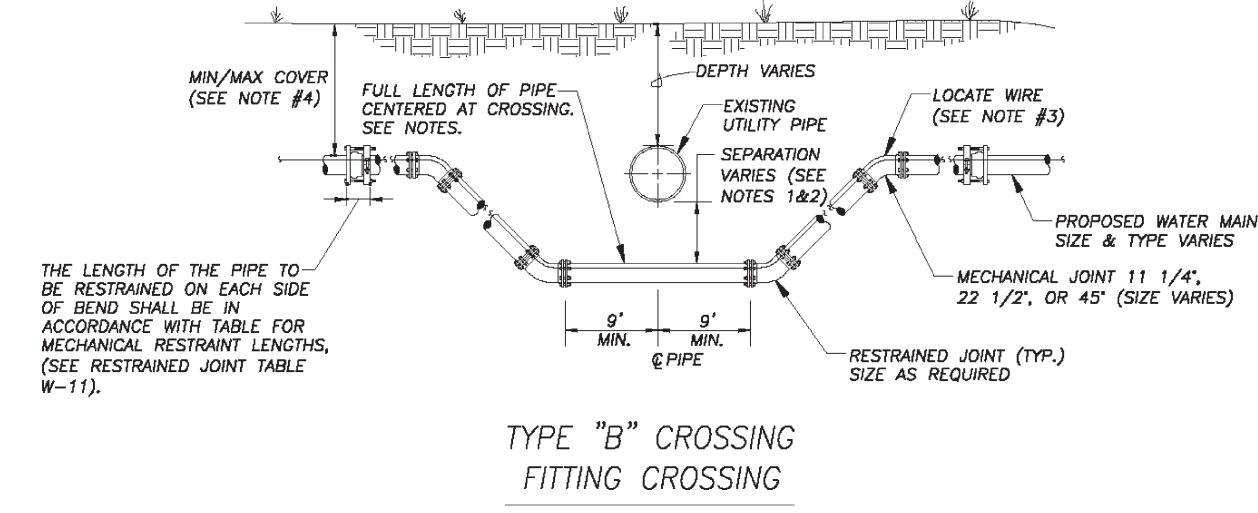
- NOTES:
- TO BE USED FOR GOOD NUMBER OF LOTS OR SPECIAL APPLICATIONS WHERE A DOUBLE SERVICE IS NOT APPROPRIATE.
 - SEE SHEET W-10 FOR DOUBLE SERVICE.
 - ALL SERVICE LOCATIONS TO BE MARKED BY ETCHING A 3" HIGH "W" IN THE CONCRETE CURB AND PAINTING IT BLUE FOR WATER OR PURPLE "W" FOR SEWER.
 - IN CERTAIN CONDITIONS, THE WATER SERVICE MAY BE REQUIRED TO BE LARGER DUE TO SIZE OF HOME, DISTANCE TO HOME, ETC.
 - DO NOT INSTALL IN DRIVEWAYS OR SIDEWALKS.
 - FOR PHASED NON-RESIDENTIAL DEVELOPMENT, A MINIMUM 2" TAP MAY BE REQUIRED TO ACCOMMODATE FUTURE EXPANSION.
 - ALL BRASS FITTINGS IN CONTACT WITH POTABLE WATER SHALL MEET NSF 61 REQUIREMENTS FOR NO LEAD.

REVISIONS	Date	Comments
2015	REVISION 2	
9/16	REVISION 1	

WATER SERVICES
SINGLE SERVICE

SCALE: N.T.S.

PLATE:
W-9



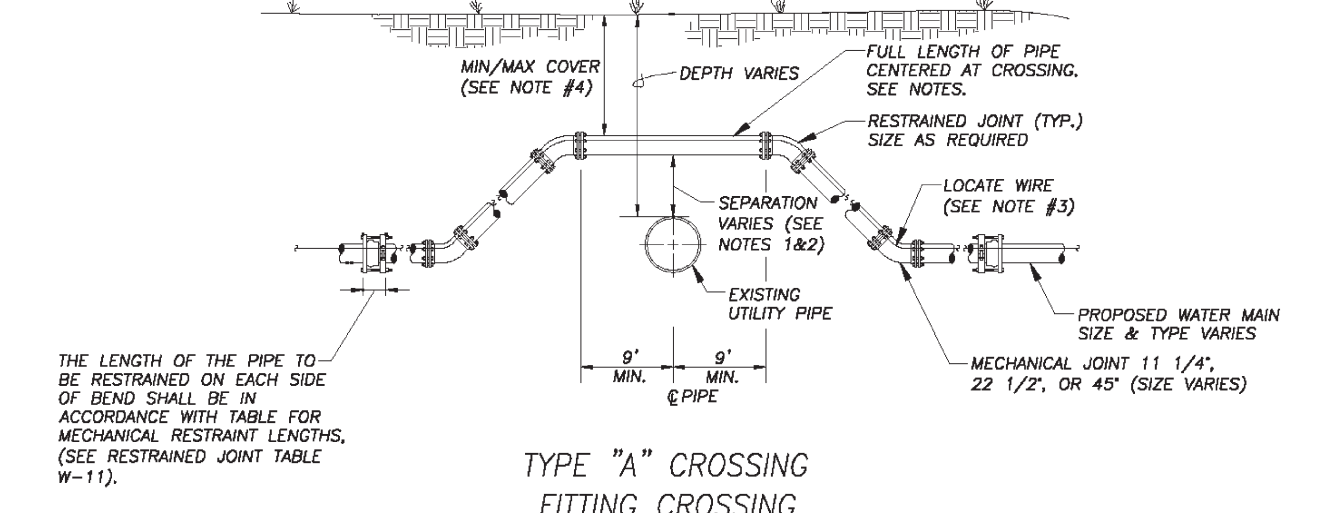
- NOTE:
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 - FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE GENERAL NOTES SHEET GN-1.
 - LOCATING WIRE REQUIRED; SEE DETAIL W-16.
 - THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60" UNLESS APPROVED BY SUCID. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84" UNLESS APPROVED BY SUCID.

REVISIONS	Date	Comments
2015	REVISION 1	

TYPE "B"
PIPE CROSSING
WITH FITTINGS

SCALE: N.T.S.

PLATE:
W-21



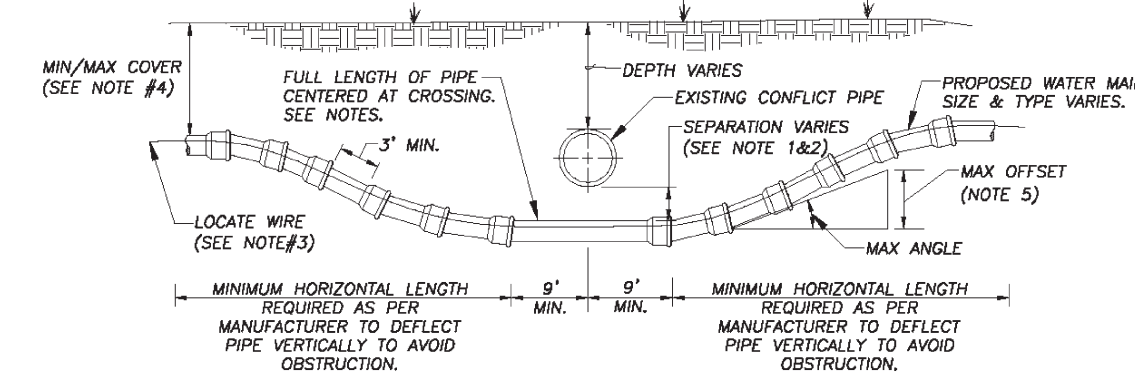
- NOTE:
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 - FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE GENERAL NOTES SHEET GN-1.
 - LOCATING WIRE REQUIRED; SEE DETAIL W-16.
 - THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60" UNLESS APPROVED BY SUCID. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84" UNLESS APPROVED BY SUCID.

REVISIONS	Date	Comments
2015	REVISION 1	

TYPE "A"
PIPE CROSSING
WITH FITTINGS

SCALE: N.T.S.

PLATE:
W-23



- NOTE:
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 - FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE GENERAL NOTES SHEET GN-1.
 - LOCATING WIRE REQUIRED; SEE DETAIL W-16.
 - THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY SUCID. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY SUCID.
 - SUCID ONLY ALLOWS SOLE OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED UNLESS OTHERWISE APPROVED BY SUCID. THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTIONS. ALL OFFSETS ARE BASED ON MINIMUM 20LF OF PIPE LENGTH.

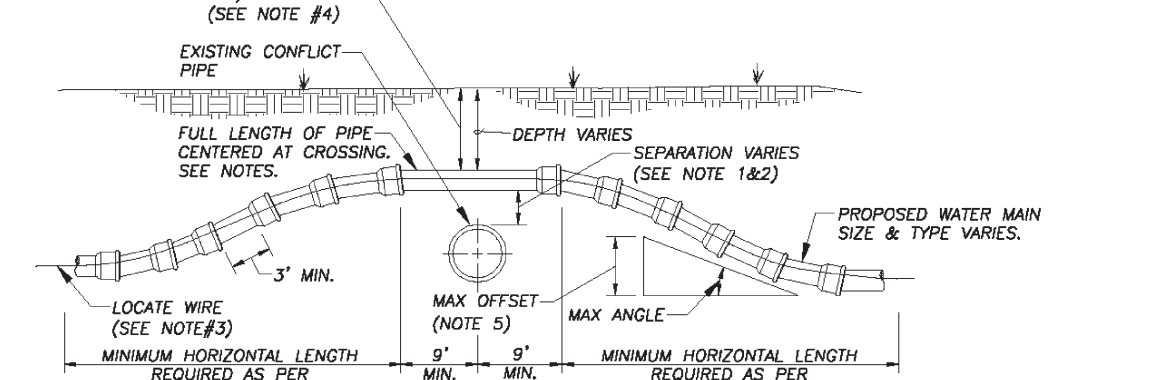
PVC PIPE SIZE	MAX OFFSET (20LF JOINT)
2"	30"
4"	19"
6"	13"
8"	10"
10"	8"
12"	7"
14" & LARGER	5"

REVISIONS	Date	Comments
2015	REVISION 1	

TYPE "B"
PIPE CROSSING
WITH DEFLECTION

SCALE: N.T.S.

PLATE:
W-22



- NOTE:
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 - FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE GENERAL NOTES SHEET GN-1.
 - LOCATING WIRE REQUIRED; SEE DETAIL W-16.
 - THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY SUCID. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY SUCID.
 - SUCID ONLY ALLOWS SOLE OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED UNLESS OTHERWISE APPROVED BY SUCID. THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTIONS. ALL OFFSETS ARE BASED ON MINIMUM 20LF OF PIPE LENGTH.

PVC PIPE SIZE	MAX OFFSET (20LF JOINT)
2"	30"
4"	19"
6"	13"
8"	10"
10"	8"
12"	7"
14" & LARGER	5"

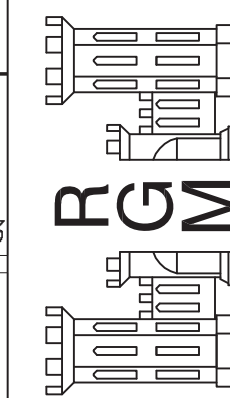
REVISIONS	Date	Comments
2015	REVISION 1	

TYPE "B"
PIPE CROSSING
WITH DEFLECTION

SCALE: N.T.S.

PLATE:
W-24

65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633

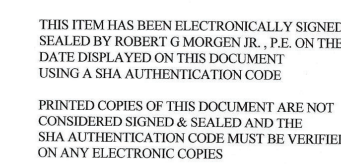






TURINCA CENTER

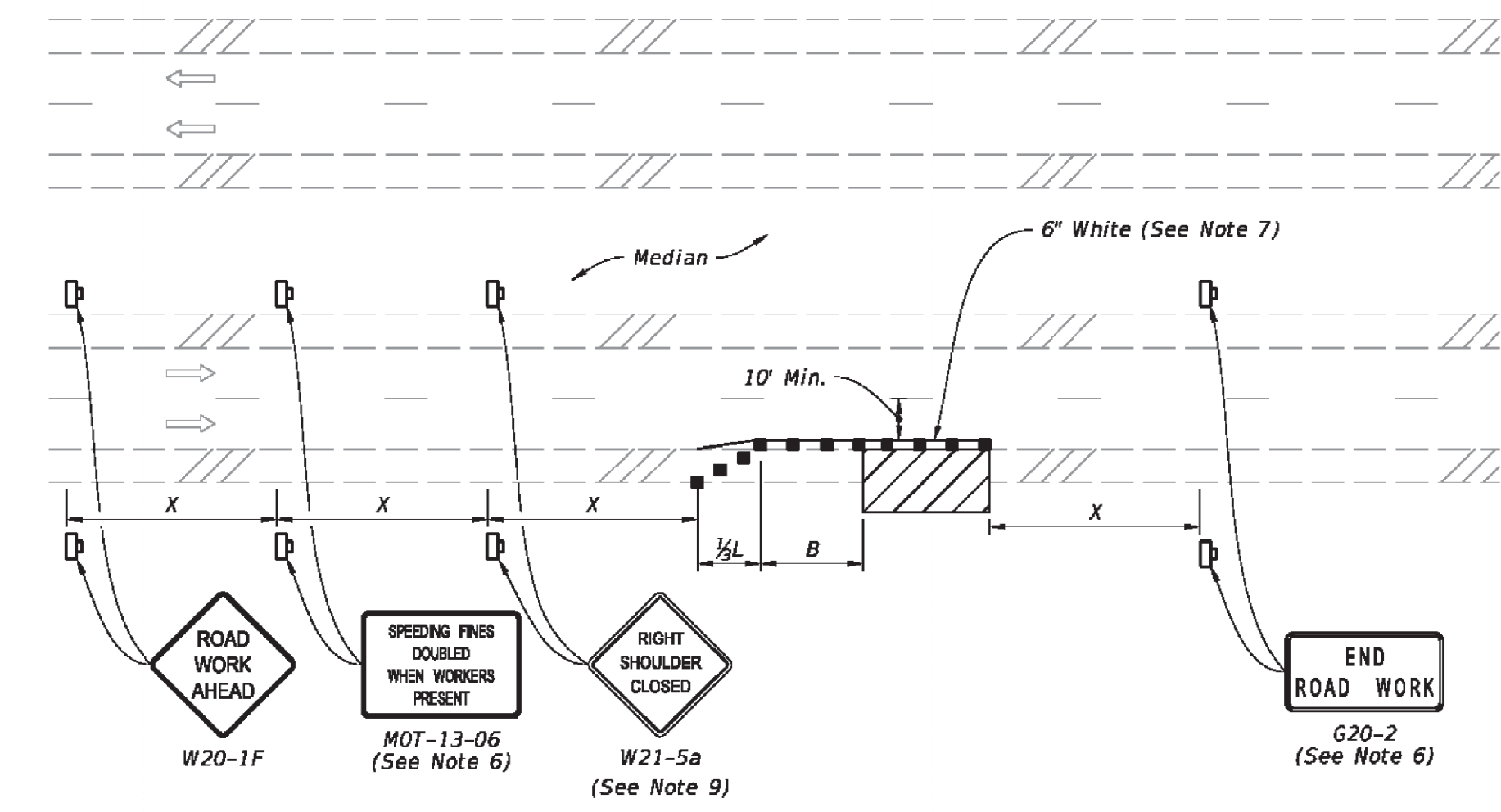
WATER &
SEWER
DETAILS

ROBERT G. MORGEN, JR., P.E.
#58118

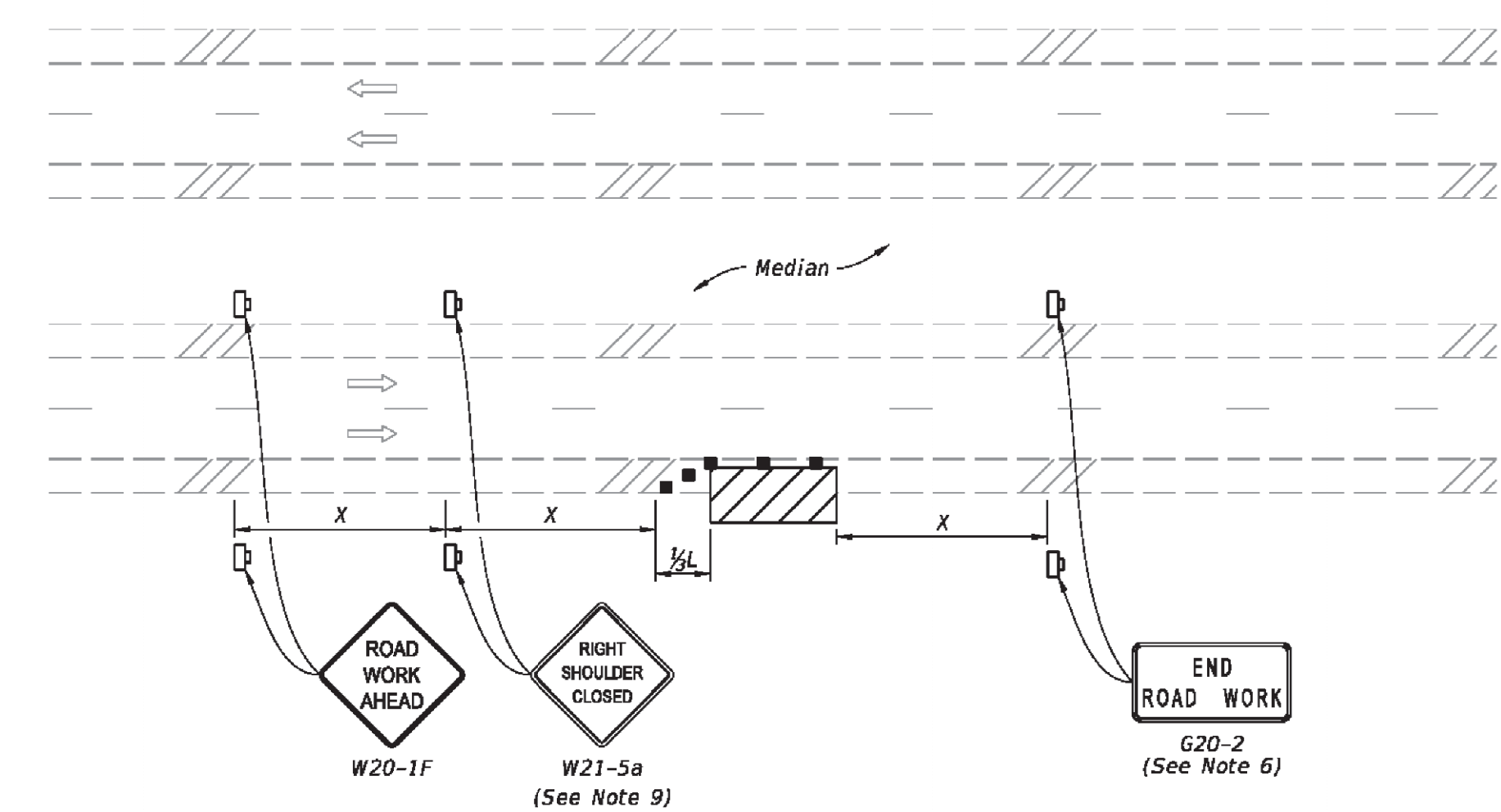
2024.02
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13:43:00
7-05'00"
2-2-24



- SYMBOLS:**
-  Work Area
 -  Channelizing Device (See Index 102-600)
 -  Work Zone Sign
 -  Lane Identification and Direction of Traffic



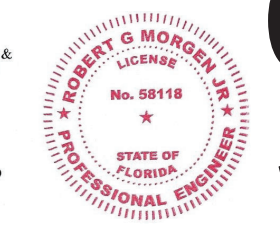
MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

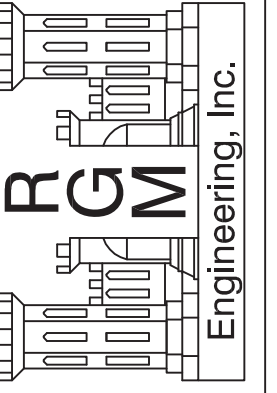
LAST REVISION 11/01/20	DESCRIPTION:	FDOT FY 2021-22 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2
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THIS ITEM HAS BEEN ELECTRONICALLY SIGNED & SEALED BY ROBERT G. MORGAN, JR., P.E. ON THE DATE DISPLAYED ON THIS DOCUMENT USING A SIGNATURE CERTIFICATE.



2024.02.
03
13:42:57
-05'00'
2-2-24

65 LEWIS BLVD
ST. AUGUSTINE, FLORIDA 32084
904-814-7633



TRINCA CENTER

FDOT
MAINTENANCE
OF TRAFFIC

ROBERT G. MORGAN, JR., P.E.
#5815

STORM WATER POLLUTION PREVENTION PLAN

CITY'S REQUIREMENTS

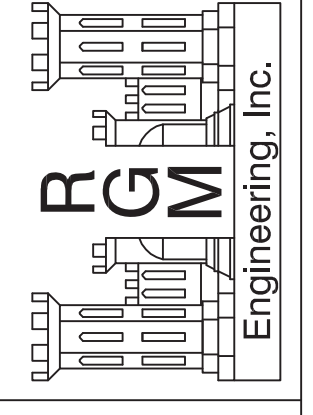
CONTRACTOR'S REQUIREMENTS

SITE DESCRIPTION	GENERAL	GENERAL	HAZARDOUS PRODUCTS	OTHER CONTROLS																		
<p>PROJECT NAME AND LOCATION: TRINCA CENTER</p> <p>OWNER NAME AND ADDRESS: LEN TRINCA ST. AUGUSTINE FLORIDA</p> <p>DESCRIPTION: OFFICE RETAIL STORAGE</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING AND SEEDING.</p> <p>RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 79 2. DURING CONSTRUCTION = 80 3. POST-CONSTRUCTION = .84</p> <p>SOILS: SEE SOIL BORING REPORT FOR SOILS DATA</p> <p>SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.</p> <p>* SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA: 1. TOTAL AREA OF SITE = 2.0 ACRES 2. TOTAL AREA TO BE DISTURBED = 2.0 ACRES</p> <p>NAME OF RECEIVING WATERS: -</p> <p style="text-align: center;">CONTROLS</p> <p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.</p> <p>STORM WATER MANAGEMENT STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:) _____ ROADSIDE RETENTION AREAS WHICH MEET THE PRE AND POST DISCHARGE FOR THE PROJECT. AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF .92 ACRES WILL HAVE BEEN REGRADED, 0 ACRES LEFT UNDISTURBED. THE SITE DISCHARGES TO A DRY DETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.</p> <p style="text-align: center;">TIMING OF CONTROLS/MEASURES</p> <p>REFER TO " CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.</p> <p style="text-align: center;">CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS</p> <p>IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. D.E.R. DREDGE/FILL PERMIT # _____ C.O.E. DREDGE/FILL PERMIT # _____ S.J.R.W.M.D. M.S.S.W. PERMIT # _____</p> <p style="text-align: center;">POLLUTION PREVENTION PLAN CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____</p> <p>DATED: _____</p>	<p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p style="text-align: center;">SEQUENCE OF MAJOR ACTIVITIES:</p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE 2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED 3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN 4. CONSTRUCT SEDIMENTATION BASIN 5. CONTINUE CLEARING AND GRUBBING 6. STOCK PILE TOP SOIL IF REQUIRED 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED 8. STABILIZE DENUED AREAS AND STOCKPILES AS SOON AS PRACTICABLE </td> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER. 10. APPLY BASE TO PROJECT COMPLETE GRADING AND SEEDING/SOD AND PLANTING 12. COMPLETE FINAL PAVING 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED </td> </tr> </table> <p style="text-align: center;">TIMING OF CONTROLS/MEASURES</p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.</p> <p style="text-align: center;">CONTROLS</p> <p>IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</p> <ol style="list-style-type: none"> 1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: <ol style="list-style-type: none"> A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO CITY STANDARD DETAIL D-913 FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO D-901, D-911 AND D-12 FOR PROPER LOCATION, MATERIAL & USAGE. 2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: <ol style="list-style-type: none"> A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO CITY STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER. 3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE. 4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE 	<ol style="list-style-type: none"> 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE 2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED 3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN 4. CONSTRUCT SEDIMENTATION BASIN 5. CONTINUE CLEARING AND GRUBBING 6. STOCK PILE TOP SOIL IF REQUIRED 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED 8. STABILIZE DENUED AREAS AND STOCKPILES AS SOON AS PRACTICABLE 	<ol style="list-style-type: none"> 9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER. 10. APPLY BASE TO PROJECT COMPLETE GRADING AND SEEDING/SOD AND PLANTING 12. COMPLETE FINAL PAVING 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED 	<p>CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.</p> <ol style="list-style-type: none"> 5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY. 6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. 7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. 8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. 9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH. 10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS. 11. TEMPORARY REGRESSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASS COVER HAS NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS AREAS, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER. 12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED. 13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES. 14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED. <p>STRUCTURAL PRACTICES</p> <ol style="list-style-type: none"> 1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D-914. 2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDANTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: <ol style="list-style-type: none"> A. BLOCK & GRAVEL SEDIMENT FILTER – THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO D-902 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-904 FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER. B. GRAVEL SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. REFER TO D-903 FOR CONSTRUCTION OF CURB INLET & DROP SEDIMENT TRAP. C. DROP INLET SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO D-905 FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER. 3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL. 4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. 	<p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> * PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. * ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. <p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p style="text-align: center;">SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SANDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL. IF THERE IS ANOTHER ONE, A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p style="text-align: center;">SPILL PREVENTION</p> <p>MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. * AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</p> <p style="text-align: center;">HAZARDOUS PRODUCTS</p> <p>HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. * PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. * ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. 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EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SANDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL. IF THERE IS ANOTHER ONE, A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p style="text-align: center;">SPILL PREVENTION</p> <p>MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. * AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</p>	<ul style="list-style-type: none"> * SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. * THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST. * DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED. * TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. * A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. * THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT. * PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. <p>NON-STORM WATER DISCHARGES IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD: * WATER FROM WATER LINE FLUSHING * PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). * UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.</p> <p style="text-align: center;">CONTRACTOR'S CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p>																
<ol style="list-style-type: none"> 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE 2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED 3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN 4. CONSTRUCT SEDIMENTATION BASIN 5. CONTINUE CLEARING AND GRUBBING 6. STOCK PILE TOP SOIL IF REQUIRED 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED 8. STABILIZE DENUED AREAS AND STOCKPILES AS SOON AS PRACTICABLE 	<ol style="list-style-type: none"> 9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER. 10. APPLY BASE TO PROJECT COMPLETE GRADING AND SEEDING/SOD AND PLANTING 12. COMPLETE FINAL PAVING 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED 																					
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">RESPONSIBLE FOR DUTIES</th> <th style="width: 15%;">GENERAL CONTRACTOR</th> <th style="width: 15%;">SUB-CONTRACTOR</th> <th style="width: 15%;">SUB-CONTRACTOR</th> <th style="width: 15%;">SUB-CONTRACTOR</th> <th style="width: 15%;">SUB-CONTRACTOR</th> </tr> </thead> <tbody> <tr> <td>BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SIGNATURE</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. * NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. * ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER. * ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. * BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p>	RESPONSIBLE FOR DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS						SIGNATURE					
RESPONSIBLE FOR DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR																	
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SIGNATURE																						

Revisions

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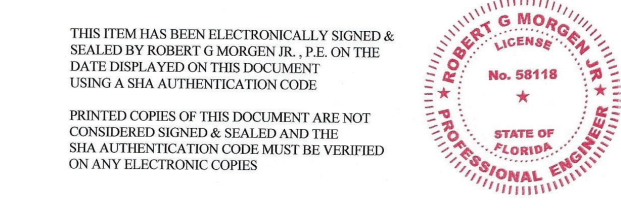
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NPDES NOTES

ROBERT G. MORGEN, JR., P.E.
#58118

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NOTE TO CONTRACTOR:

THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

PROJECT: STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE: _____

INSPECTOR'S QUALIFICATIONS: _____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

STABILIZATION MEASURES				
INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED * (YES/NO)	CONDITION

STABILIZATION REQUIRED: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

PROJECT: STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

DATE: _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4

PROJECT: STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MASH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CURBVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 3 OF 4

PROJECT: STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN: _____

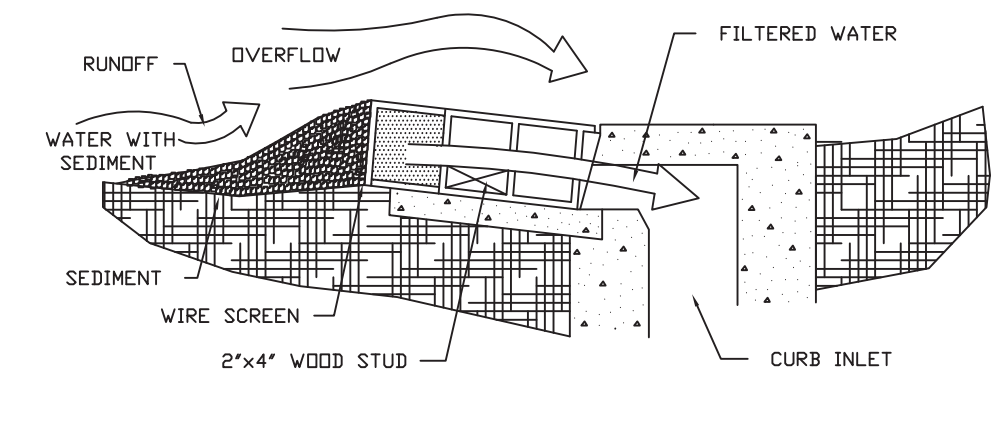
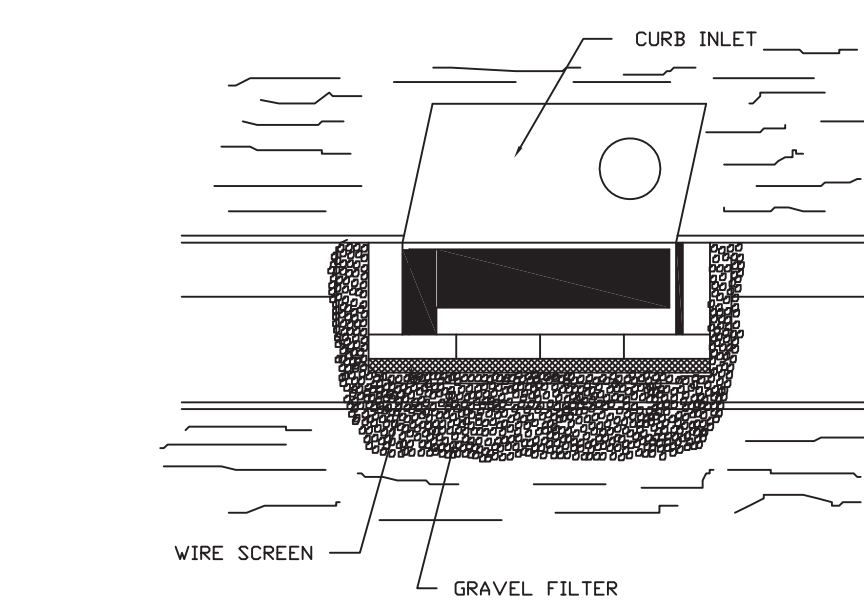
REASONS FOR CHANGES: _____

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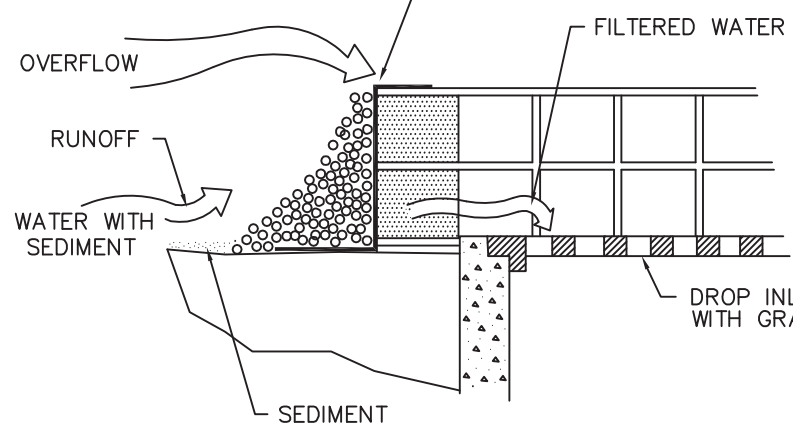
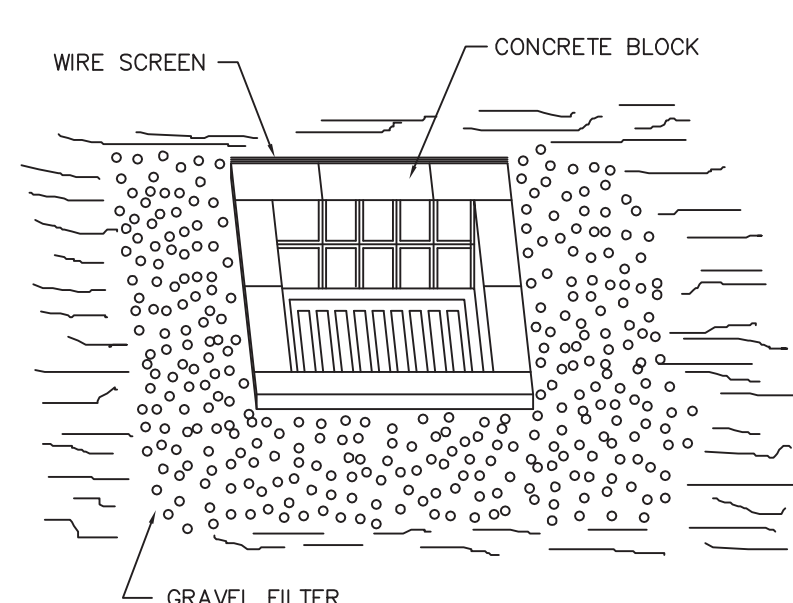
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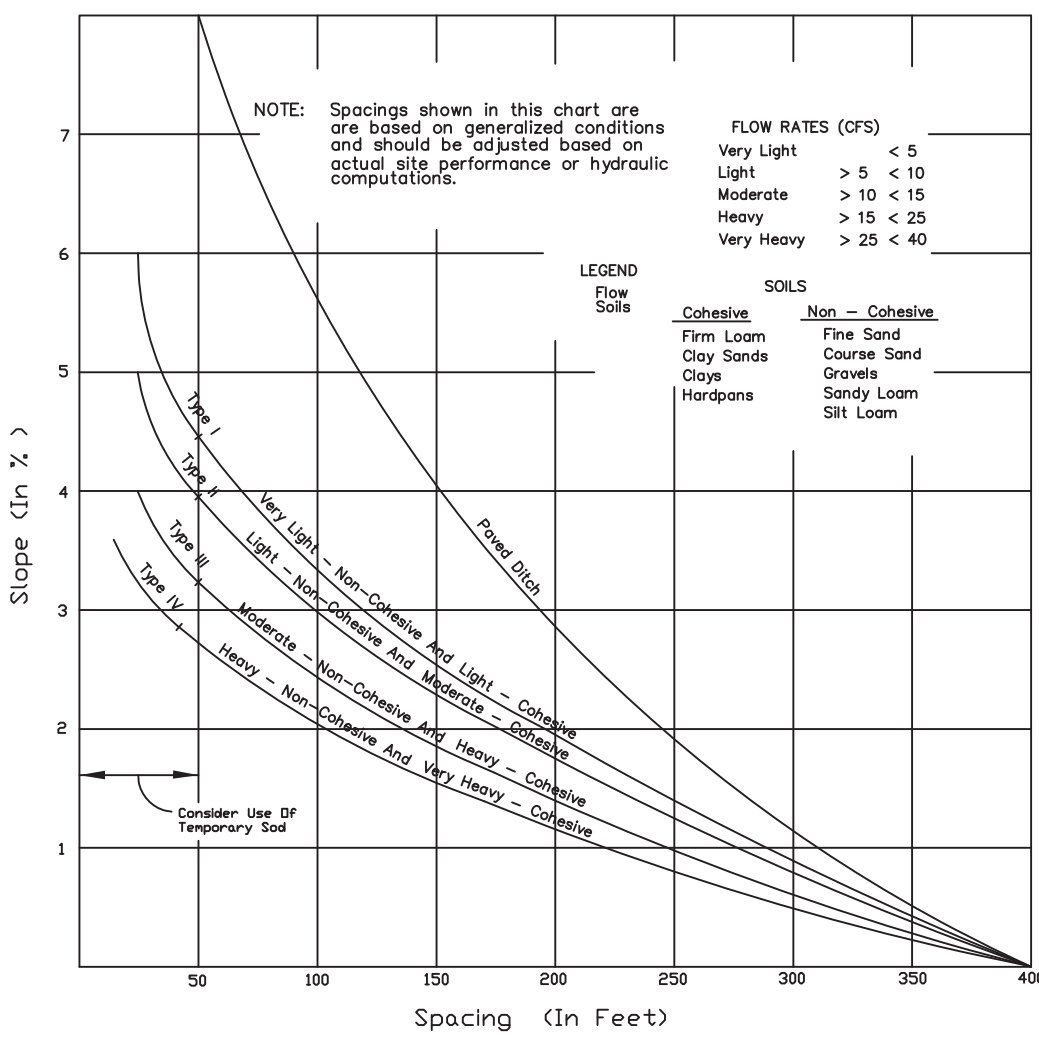
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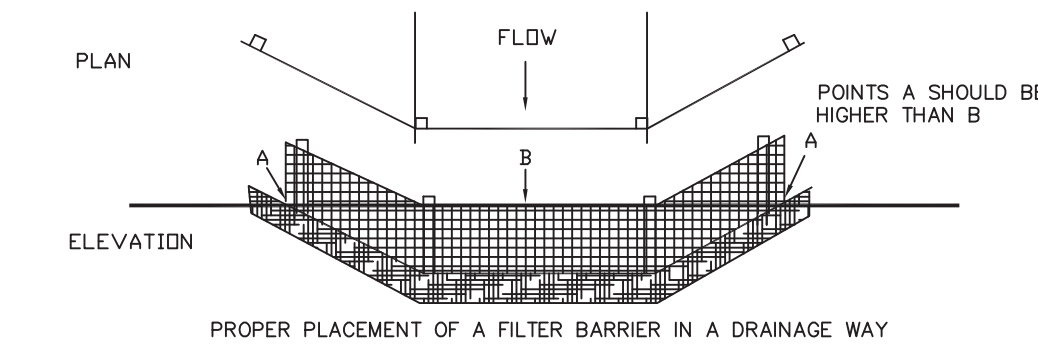
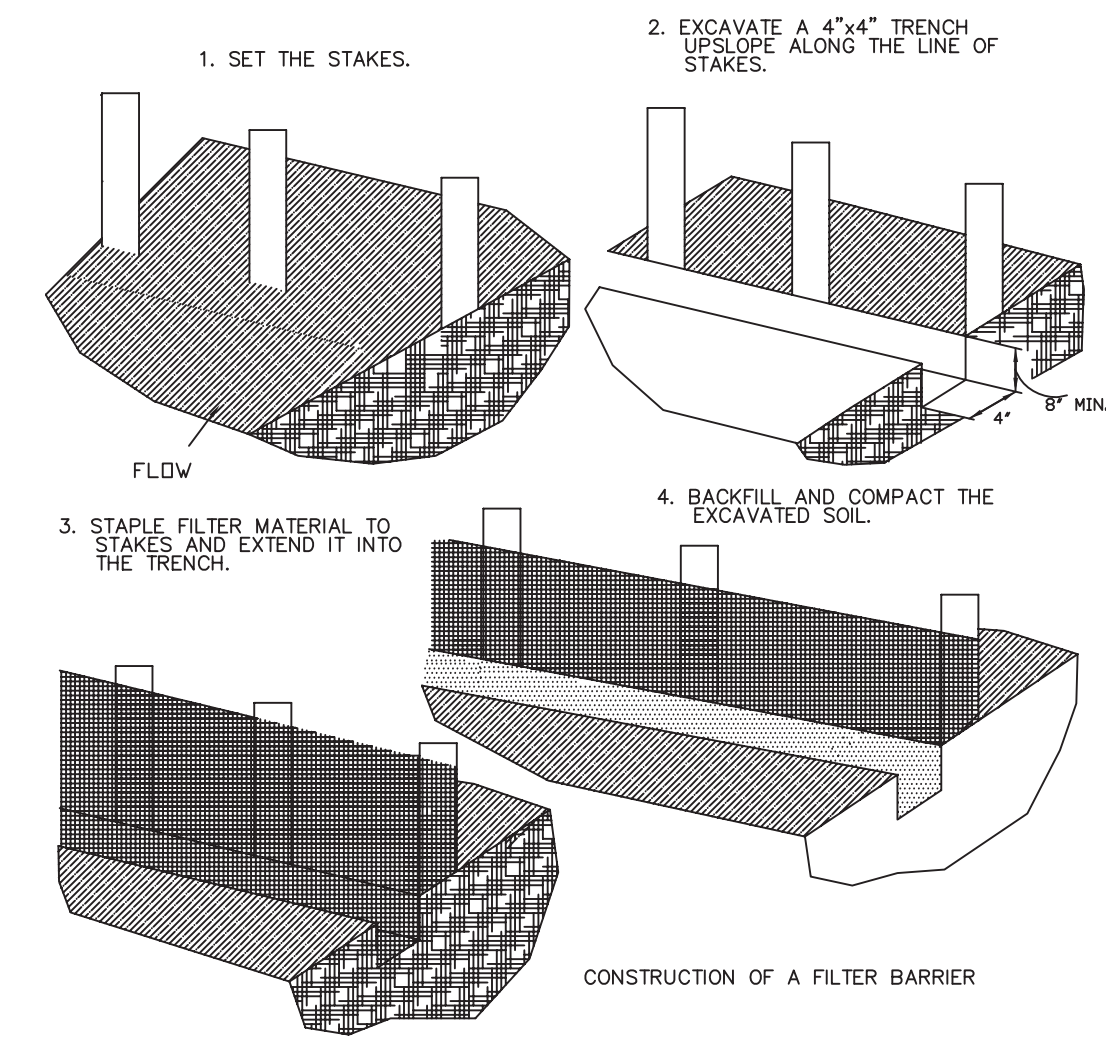
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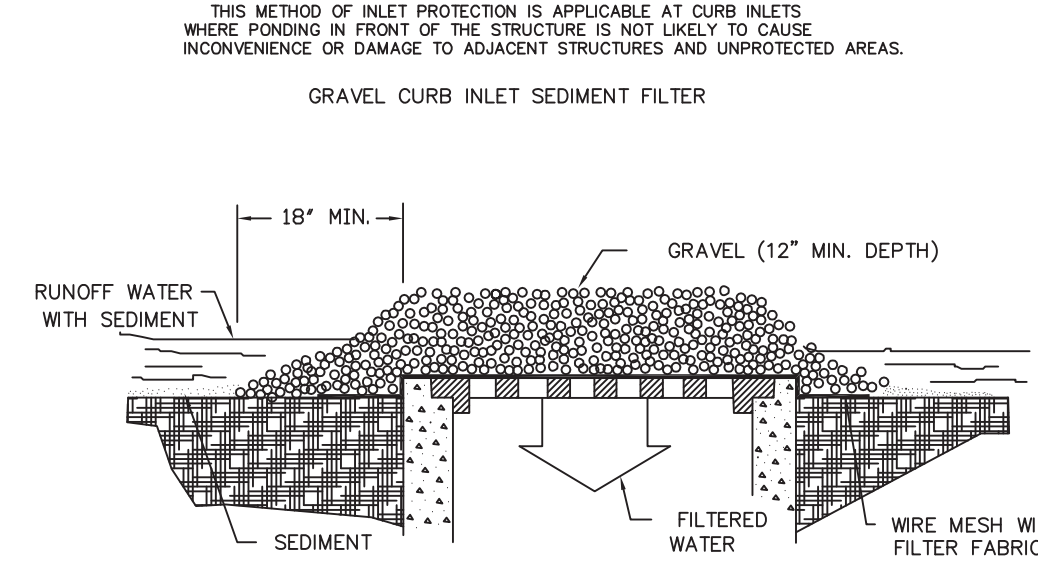
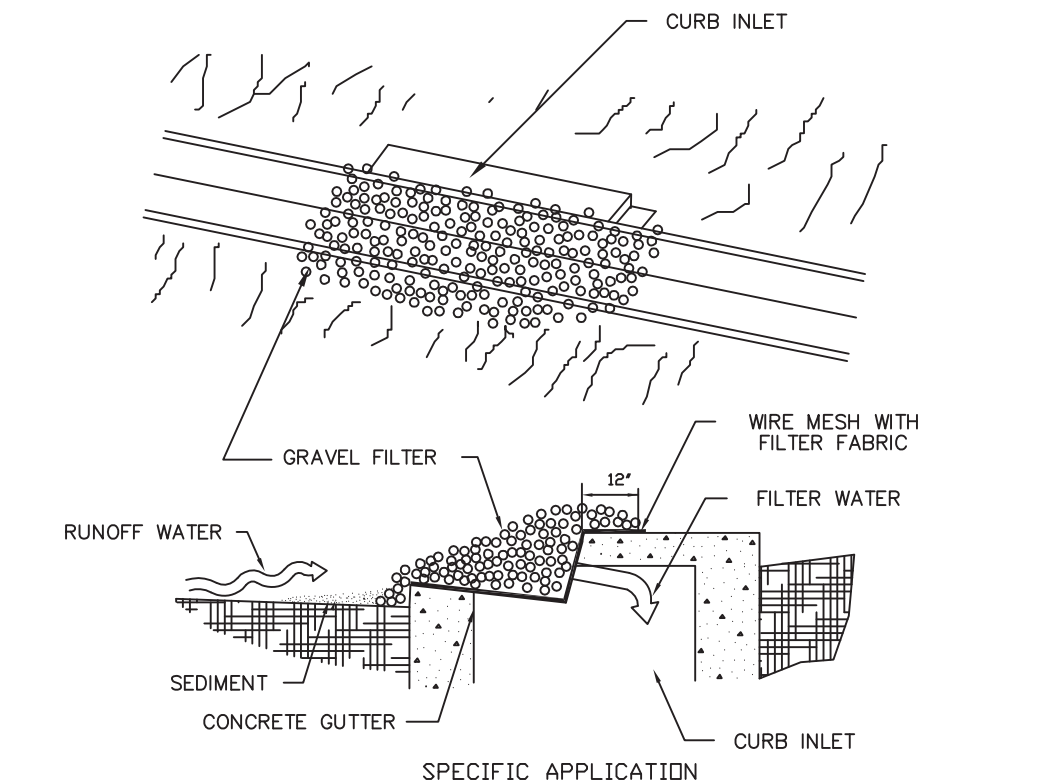
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(D-904)
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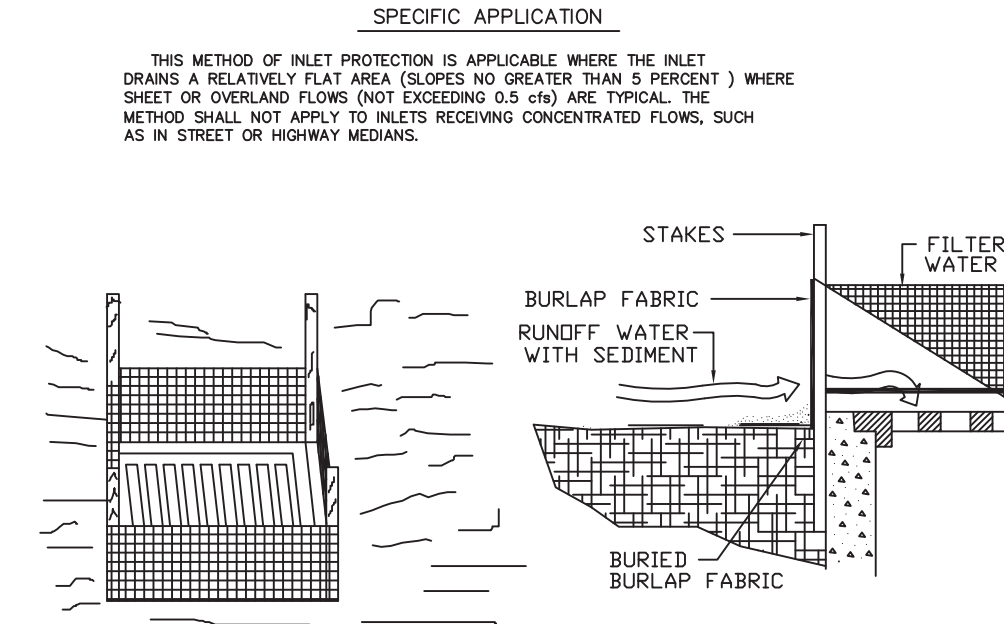
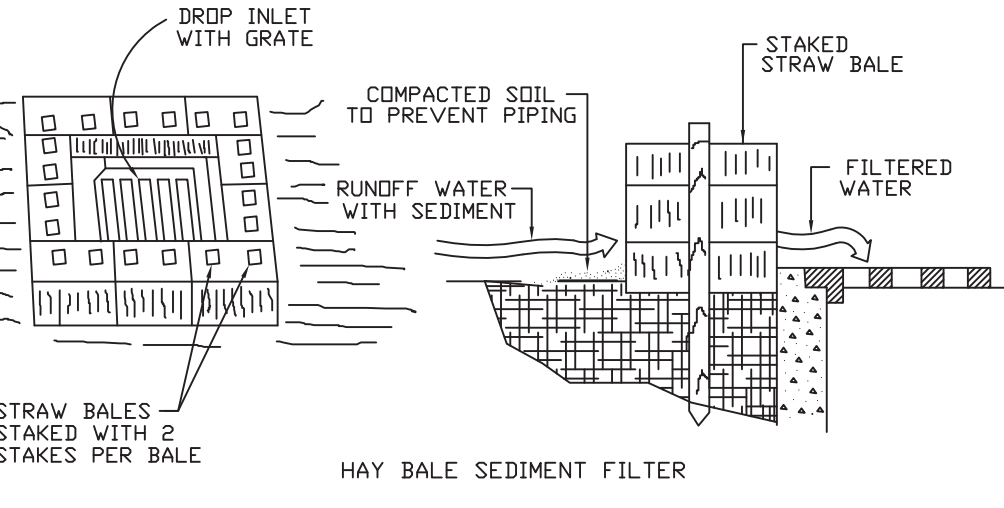
SPACING RECOMMENDATION FOR SILT FENCES & HAY BALES
(D-906)
N.T.S.



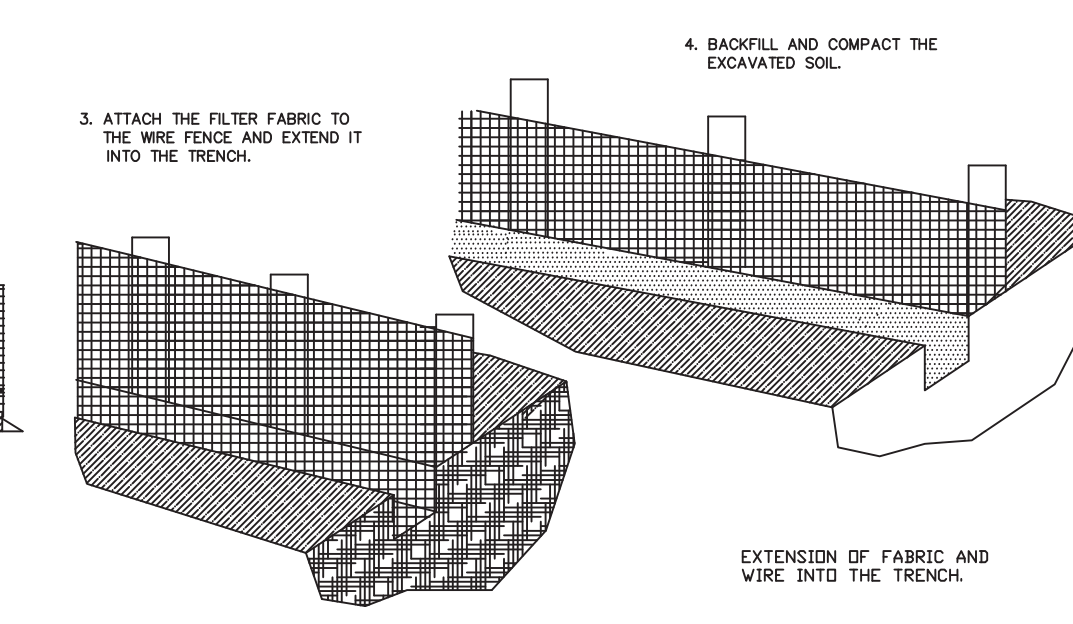
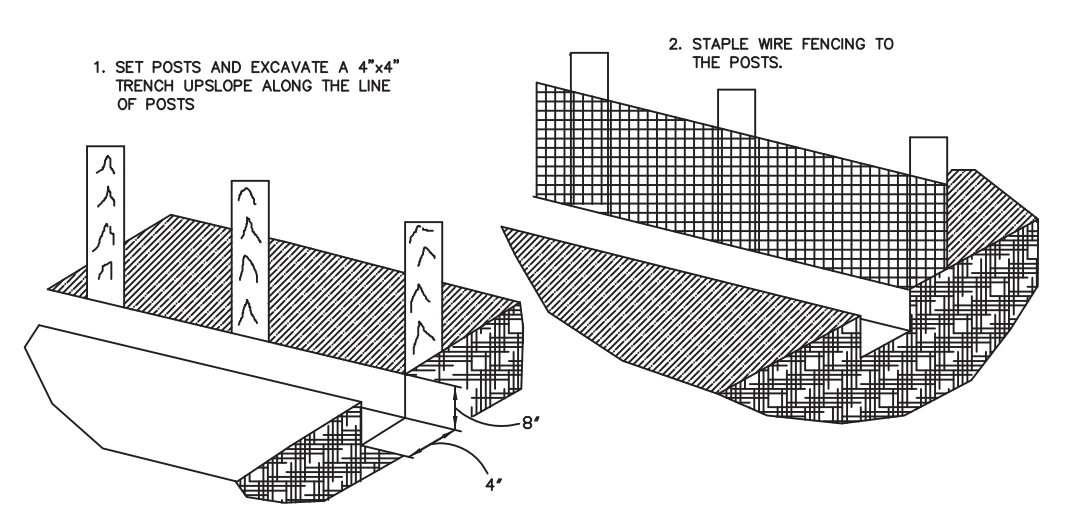
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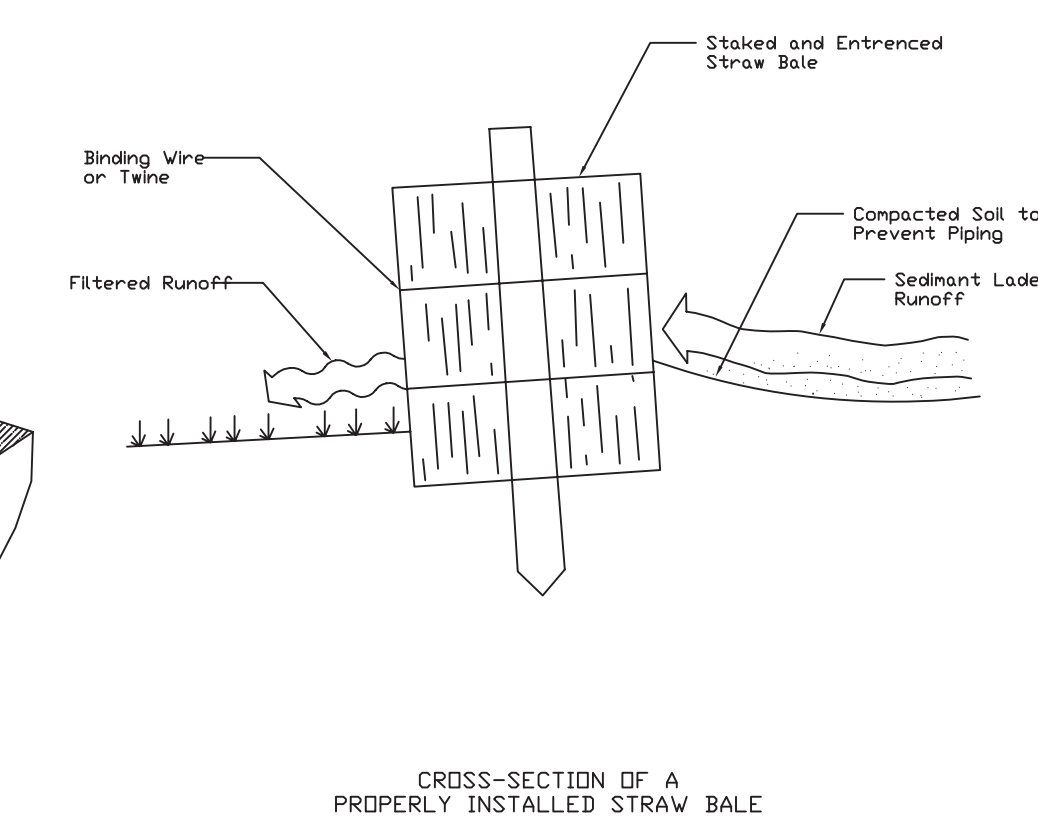
GRAVEL INLET SEDIMENT TRAP
(D-903)
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DROP INLET SEDIMENT TRAP
(D-905)
N.T.S.

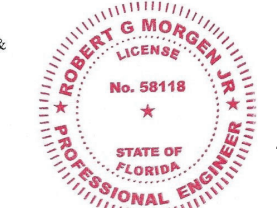


CONSTRUCTION DETAILS FOR SILT FENCES
(D-909)
N.T.S.



STAKED HAY BALE
(D-911)
N.T.S.

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